

Understanding the control

FLOW~IQ® Technology

- Automatically regulates saline outflow with COBLATION® energy to optimize performance across all tissue types
- The only platform to control energy output and outflow suction
- Enables VAC mode, designed to clear debris and improve visibility

FLOW 50° & FLOW 90° Wands

- FLOW 50 wand removes tissue approximately 4 times faster than our market leading 50 degree wand¹³
- FLOW 90 wand triangular tip designed to enable tissue manipulation
- Removes tissue at lower temperatures than our market leading wands
- Five distinct operating modes address multiple tissue types and minimize instrument changes



COBLATION Technology

- The controlled plasma field produced by COBLATION allows for precise removal of soft tissue with minimal thermal damage (100-200 µm) evident in untargeted cartilage tissue^{1***}

SCOPE-SENSING Technology

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

AMBIENT® Technology

- Provides accurate, real-time temperature monitoring of the intra-articular fluid^{14,15}

Ordering information

WEREWOLF® System	
Reference #	Description
72290105	WEREWOLF Generator
Wands	
Reference #	Description
ASHA4830-01	AMBIENT® SUPER MULTIVAC 50 (IFS)
ASHA4250-01	AMBIENT SUPER TURBOVAC 90 (IFS)
ASHA2530-01	COVAC® 50
ASHA3730-01	COVAC 70
AC4340-01	COVATOR®
72290037	FLOW 50°
72290038	FLOW 90°
72290004	HIPVAC®
ASCA5001-01	MEGAVAC®
AC2340-01	SIDEWINDER® BLADE
ASC4251-01	STARVAC®
ASC4830-01	SUPER MULTIVAC® 50
ASH4830-01	SUPER MULTIVAC 50 (IFS)
ASC4250-01	SUPER TURBOVAC® 90
ASH4250-01	SUPER TURBOVAC 90 (IFS)
ACH4041-01	TOPAZ® EZ
ACH4045-01	TOPAZ

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References

1. Amiel D, Ball ST, Tasto JP. Chondrocyte viability and metabolic activity after treatment of bovine articular cartilage with bipolar radiofrequency: an in vitro study. *Arthroscopy*. 2004;20(5):503-510 **2.** ArthroCare 2014.FLOW 50 Wand Vac Mode Comparative Bench-Top Study Report. P/N 53303-01_A. **3.** Spahn G, Kahl E, Muckley T, Hofmann GO, Klinger HM. Arthroscopic knee chondroplasty using a bipolar radiofrequency-based device compared to mechanical shaver: results of a prospective, randomized, controlled study. *Knee Surg Sports Traumatol Arthrosc*. 2008;16(6):565-573 **4.** Spahn G, Hofmann GO, Von Engelhardt LV. Mechanical debridement versus radiofrequency in knee chondroplasty with concomitant medial meniscectomy: 10-year results from a randomized controlled study. *Knee Surg Sports Traumatol Arthrosc*. 2016;24(5):1560-1568 **5.** Spahn G, Klinger HM, Muckley T, Hofmann GO. Four-year results from a randomized controlled study of knee chondroplasty with concomitant medial meniscectomy: mechanical debridement versus radiofrequency chondroplasty. *Arthroscopy*. 2010;26(9 Suppl):S73-80 **6.** Barker SL, Johnstone AJ, Kumar K. In vivo temperature measurement in the subacromial bursa during arthroscopic subacromial decompression. *J Shoulder Elbow Surg*. 2012;21(6):804-807. **7.** Gharaibeh M, Szomor A, Chen DB, Macdessi SJ. A Retrospective Study Assessing Safety and Efficacy of Bipolar Radiofrequency Ablation for Knee Chondral Lesions. *Cartilage*. 2018;9(3):241-247. **8.** Liu YJ, Wang Y, Xue J, Lui PP, Chan KM. Arthroscopic gluteal muscle contracture release with radiofrequency energy. *Clin Orthop Relat Res*. 2009;467(3):799-804. **9.** Sean NY, Singh I, Wai CK. Radiofrequency microtenotomy for the treatment of plantar fasciitis shows good early results. *Foot Ankle Surg*. 2010;16(4):174-177. **10.** Taverna E, Battistella F, Sansone V, Perfetti C, Tasto JP. Radiofrequency-based plasma microtenotomy compared with arthroscopic subacromial decompression yields equivalent outcomes for rotator cuff tendinosis. *Arthroscopy*. 2007;23(10):1042-1051. **11.** Wei M, Liu Y, Li Z, Wang Z. Short-term effects of radiofrequency shrinkage treatment for anterior cruciate ligament relaxation on proprioception. *J Int Med Res*. 2013;41(5):1586-1593. **12.** Zini R, Munegato D, De Benedetto M, Carraro A, Bigoni M. Endoscopic iliotibial band release in snapping hip. *Hip Int*. 2013;23(2):225-232. **13.** Diab MA, Fernandez GN, Elsarafy K. Time and cost savings in arthroscopic subacromial decompression: the use of bipolar versus monopolar radiofrequency. *Int Orthop*. 2009;33(1):175-179. **14.** ArthroCare Corporation 2015.Report, Design Verification, FLOW 50 at Maximum 1X Sterility. P/N 65200-01 Rev.A. **15.** Smith+Nephew 2019.Report, Design Verification, 1X Ablation Testing & Every Tissue Every Mode (ETEM), FLOW 90. P/N 88079-01 Rev.C.

* In Vac mode the FLOW 50 COBLATION Wand removes free-floating tissue approximately four times faster than AMBIENT® SUPER MULTIVAC 50, in vitro

** The controlled plasma field produced by COBLATION allows for precise removal of soft tissue with minimal damage (100 - 200 µm) evident in untargeted cartilage tissue ex vivo; Cell damage may vary depending on protocol used.

*** Compared to QUANTUM® 2, demonstrated in vitro

+ Putting control in your hands

Combining COBLATION technology with FLOW~IQ® technology to remove tissue with speed* and precision^{1,2 **}

Smith+Nephew

WEREWOLF®
COBLATION®
System



Faster + Better + Safe

COBLATION[®] technology is clinically proven to improve patient outcomes compared to mechanical debridement.³⁻⁵



Faster patient recovery³

- Significantly less post-op pain at all follow-up points (6 weeks to 1 year).³
- 91% reduction in likelihood of taking NSAIDs for knee pain at 1 year.³
- 24% faster return to work³



Better patient outcomes³⁻⁵

- 71% reduction in relative risk of revision surgery⁵
- 88% reduction in relative risk of joint replacement surgery⁵
- Significantly better KOOS and Tegner scores³⁻⁵



Safe for use on all joint soft tissue⁶⁻¹²

- Demonstrated safety for chondroplasty in a study of 840 surgeries
- No cases of chondrolysis reported⁷

Designed for your control

Backed by 20 years of experience, legacy and innovation, WEREWOLF[®] technology continues the heritage of putting control in your hands.

Choose where you have the control; the wand, device touch-screen or foot pedal, the choice is yours.

Whichever one you decide, seamlessly choose from three COBLATION[®] technology modes designed for all joint tissue types to produce specific ablation speeds and tissue effects for your procedure.

Get more out of your wands, with these features now you don't need to keep large inventories of wands but simply adjust the controls.

Key features



Did you know?
COBLATION stands
for controlled ablation