



# Safety is our Signature.



# Safety is our

The WHITESTAR Signature® System with proprietary Fusion Fluidics anticipates occlusions and preemptively adjusts the vacuum to deliver superior chamber stability. Surgeons can expect state-of-the-art phacoemulsification technology designed to deliver efficiency, convenience, and control.



# Signature.

## **Proprietary Fusion Fluidics**

- Optimizes chamber stability by anticipating occlusions and preemptively adjusting the vacuum before the occlusion breaks in as fast as 20 milliseconds
- Provides advanced surge-protection technology, allowing high vacuum and flow settings with any technique
- Distinctive Dual Pump Technology offers the safety of peristaltic, the performance of venturi, and the ability to switch pumps in a convenient, single cassette

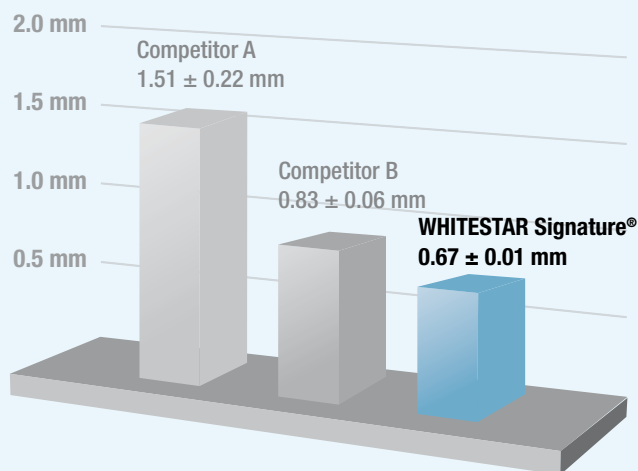
## **Advanced WHITESTAR® Micropulse Technology**

- Exceptional Ellips Transversal Ultrasound combines longitudinal and lateral motion to provide surgeons constant emulsification and improved followability without a change in preferred technique
- Advanced pulse shaping offers preset options, plus a range of amplitude settings for customization in each phaco setting
- Automatic occlusion sensing and power modulation for exquisite control

# Only the WHITESTAR Signature® System delivers up to 56 % less surge than competitor systems

An independent, peer-reviewed study published in the American Journal of Ophthalmology shows that the WHITESTAR Signature® System provides significantly better surge protection<sup>1</sup>

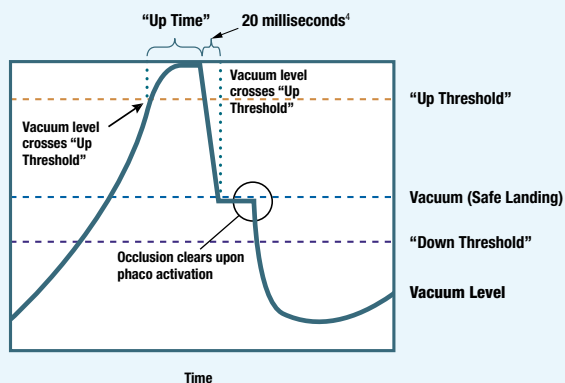
## SURGE COMPARISON CHART



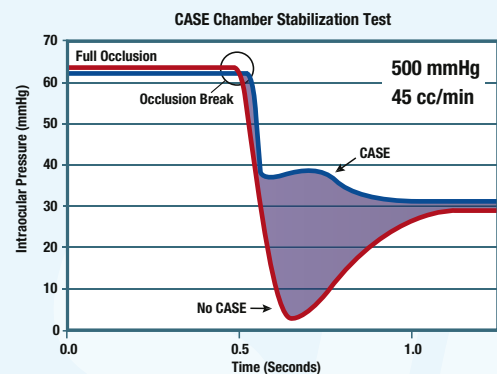
*In an independent study measuring fluidics performance, the WHITESTAR Signature® System delivered up to 56 % less postocclusion surge than competitor systems.<sup>1</sup>*

## Revolutionary Fusion Fluidics

- Improves chamber stability by anticipating occlusions and preemptively adjusting the vacuum before the occlusion breaks
- Provides advanced surge-protection technology, allowing high vacuum and flow settings with any technique
- Reduces phaco time and increases efficiency during surgery



*When the "Up Time" has elapsed, Fusion Fluidics proactively steps down the vacuum to the predefined level before the occlusion breaks.<sup>2</sup>*



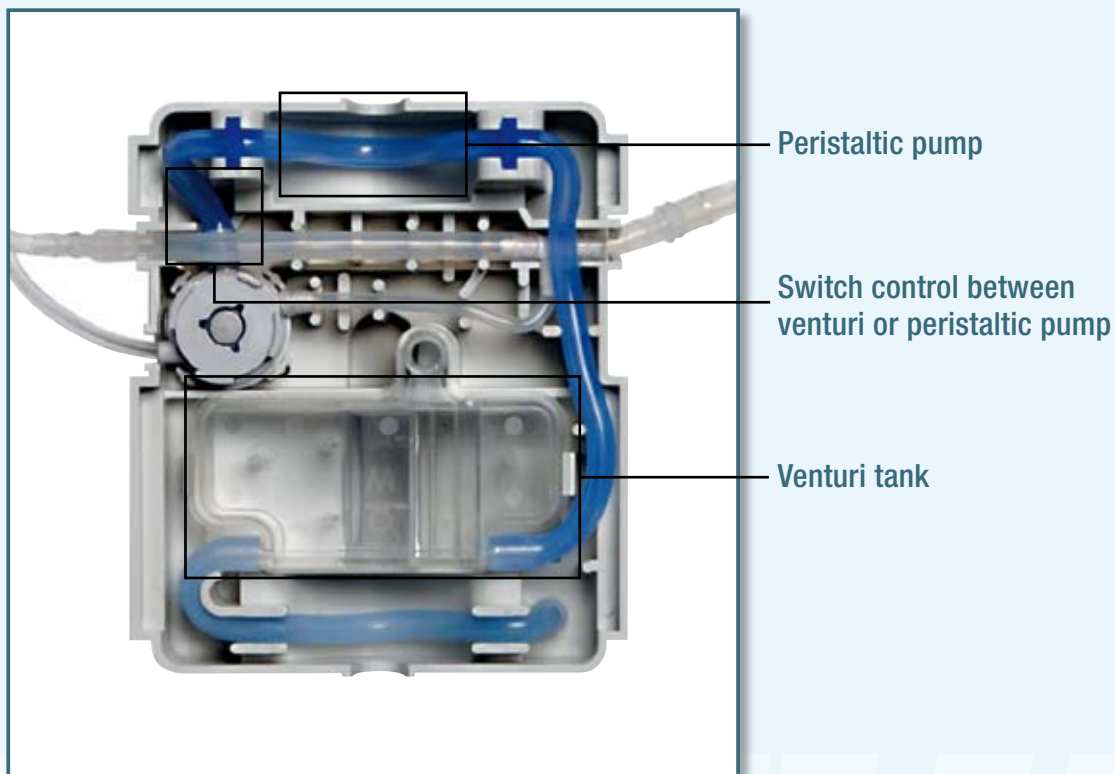
*By stepping down the vacuum before the occlusion breaks, Fusion Fluidics maintains intraocular pressure to improve chamber stability.<sup>2</sup>*

# The best of both worlds with dual-pump technology

## Proprietary dual-pump technology allows switching between peristaltic and venturi in one cassette

- Utilize the peristaltic pump for deliberate and reliable performance during sculpting and nuclear fragmentation
- Switch to the vacuum-based venturi pump for efficient irrigation/aspiration, epinuclear and corneal cleanup, and vitrectomy
- Access the flexibility of both modalities for a cost-effective and efficient tool in multi-surgeon and teaching environments

### FUSION FLUIDICS DUAL PUMP TUBING CASSETTE

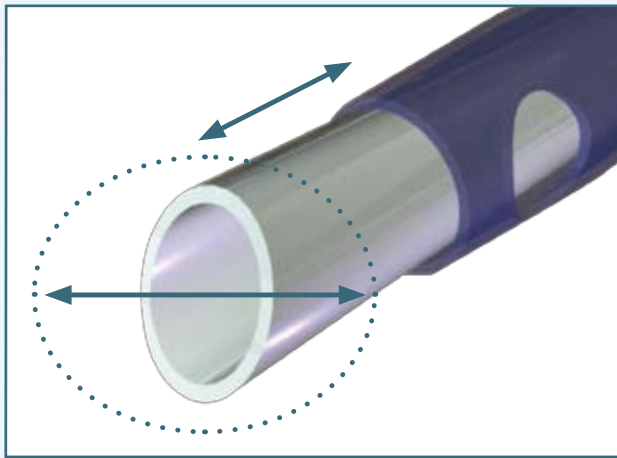


*Only the WHITESTAR Signature® System provides both peristaltic and venturi pump modalities in a convenient single cassette.*

# Maximum Cutting Efficiency and Minimal Power with WHITESTAR® Technology

## Ellips Transversal Ultrasound, the optimized alternative to torsional phaco, offers safe, efficient cutting

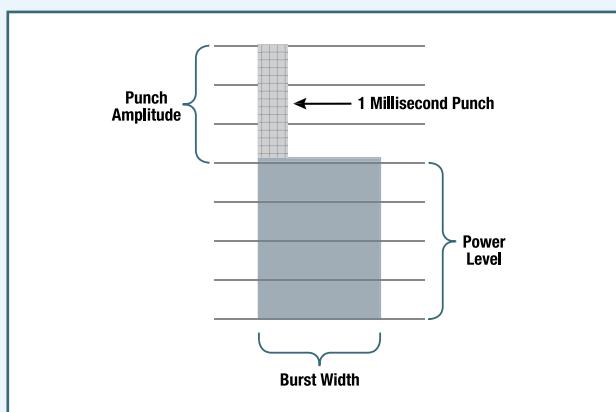
- Simultaneously combines longitudinal and transversal modes for constant emulsification and minimized clogging
- Delivers enhanced magnetic followability through WHITESTAR® Micropulse Technology
- Offers efficient cutting with any tip style, bent or straight, without a change in surgeons' preferred technique



*The unique elliptical motion provides continuous cutting for optimal safety and efficiency.*

## Micropulse Technology delivers better safety, ease of use, and faster phaco times<sup>3</sup>

- Maximize ultrasound efficiency for less risk of surgical complications and better outcomes<sup>3,4</sup>
- Customize pulse shaping for enhanced magnetic followability and cavitation acceleration<sup>3,4</sup>
- Minimize endothelial cell loss and provide clearer corneas postop day one through efficient cavitation action<sup>2,3,5</sup>



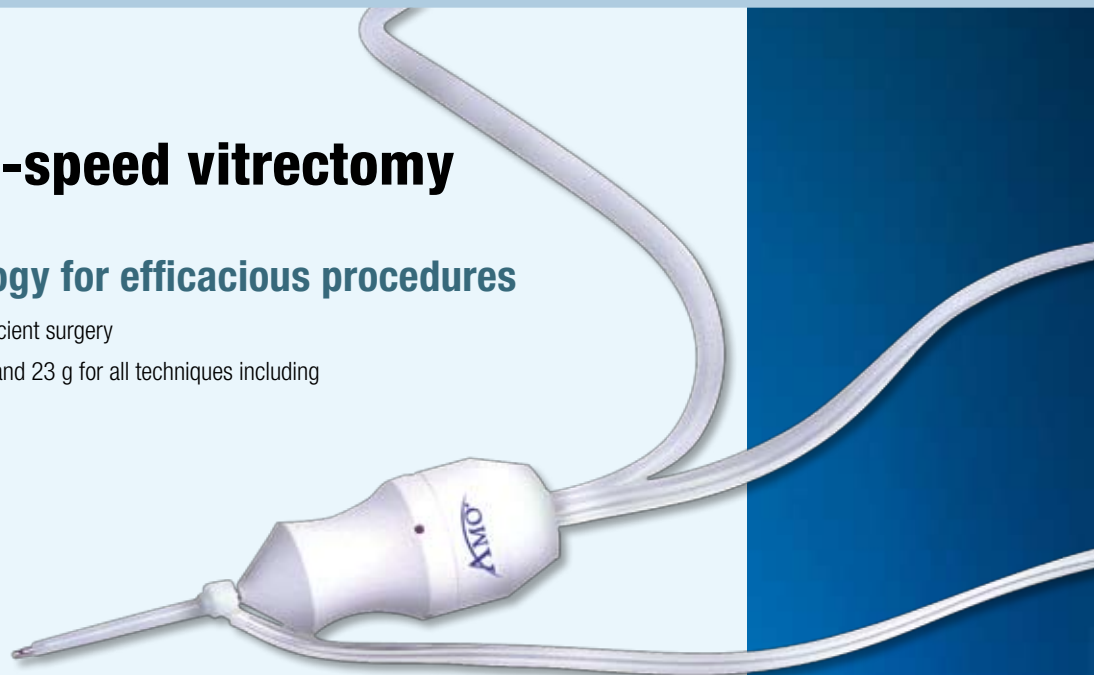
*Pulse shaping with preprogrammed, millisecond energy punch accelerates cavitation.<sup>2</sup>*



# Advanced, high-speed vitrectomy

## Safe, reliable technology for efficacious procedures

- Maximum cut rate of 2,500 cpm for efficient surgery
- Vitrectomy cutter options include 20 g, and 23 g for all techniques including coaxial and sutureless pars plana
- Programmable foot pedal functionality



*Intuitive touch screen*

## Built-in innovation and Ease-of-use with the WHITESTAR Signature® system

### User-friendly, efficient interface and accessories

- Provides fast one-touch prime/tune cycle to expedite OR turnover
- Allows individual surgeon settings to be uploaded from any memory stick
- Offers cutting-edge accessories, such as LCD touchscreen monitor, wireless remote using Bluetooth® technology, and multilingual voice communication
- One-step loading tubing cassette



*Lightweight, ergonomic handpiece*



*Easy-to-load tubing cassette*





## Safety is our Signature.

The revolutionary WHITESTAR Signature® System with Fusion Fluidics provides surgeons with the most advanced safety features to provide the best possible outcomes for their patients.

- **Proprietary Fusion Fluidics** anticipates occlusions and preemptively adjusts the vacuum for improved chamber stability
- **Distinctive Dual Pump Technology** offers both venturi and peristaltic modalities in a convenient single cassette
- **Exceptional Ellips Transversal Ultrasound** provides a new alternative to torsional phaco

Experience the revolution in phaco today.

For more information, contact your local AMO representative.

Part of the **AMO® Complete Refractive Solution**

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#### References:

1. Georgescu D, Kuo AF, Kinard KI, Olson RJ. A fluidics comparison of Alcon Infiniti, Bausch & Lomb Stellaris, and Advanced Medical Optics Signature phacoemulsification machines. *Am J Ophthalmol*. 2008;145(6):1014-1017.
2. Data on file. Advanced Medical Optics Inc.
3. Antao S, Klasaby S. Comparison of ultrasound power used during phacoemulsification with and without improved control and efficiency (ICE) software. Paper presented at: European Society for Cataract and Refractive Surgery (ESCRS) 24th Congress. 2006 Sept 9-13; London, England.
4. Fabian E, Maier M, Parasta A. New phaco fluidics control: CASE to prevent surge. Paper presented at: European Society for Cataract and Refractive Surgery (ESCRS) 24th Congress. 2006 Sept 9-13; London, England.
5. Dewey S. Whitestar® ICE: Igniting "cool phaco" to improve surgical efficiency. Paper presented at: European Society for Cataract and Refractive Surgery (ESCRS) 24th Congress. 2006 Sept 9-13; London, England.

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