



**Medtronic**

# Mini EVS 3.4

EPIDURAL VEIN SEALER

Bleeding in the epidural space can compromise visibility and add frustration to an otherwise predictable case. Designed to optimize visibility and control epidural bleeding, the Aquamantys® Mini EVS 3.4 enables you to prophylactically compress and seal epidural veins before they bleed.

### Product Features and Benefits

- Delivers Transcollation® technology, a combination of RF energy and saline, which has been shown to reduce blood loss during spine surgery<sup>1</sup>
- Insulated shaft enables simultaneous retraction and electrode use near sensitive tissue such as dura and nerve roots
- 3.4mm tip size for small epidural access points

### Clinical Benefits


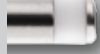
- Prevents and stops epidural bleeding near critical structures<sup>2</sup>
- Decreases surgical time and blood loss per level fused<sup>1,3</sup>
- May help improve visibility in the surgical field<sup>1,2</sup>

### Surgical Applications

- Decompression procedures (discectomy, laminectomy, and others)
- Procedures requiring access to the epidural space (PLIF, TLIF, PCDF, and others)



## COMPARISON CHART OF EPIDURAL VEIN SEALER (EVS) AND MINI EVS 3.4

	Shaft Diameter	Electrode Diameter	Electrode Spacing	Bayonet Shaft Angle	Out of Body Shaft Length	Distal Bayonet Shaft Length
 Mini EVS 3.4	3.4 mm 0.134"	3.4 mm 0.134"	0.64 mm 0.025"	15 deg	172.50 mm 6.79"	139.45 mm 5.49"
 EVS	4.0 mm 0.156"	4.0 mm 0.156"	0.64 mm 0.025"	15 deg	172.50 mm 6.79"	139.45 mm 5.49"

# Mini EVS 3.4 EPIDURAL VEIN SEALER

## Transcollation® Technology

Transcollation technology combines radiofrequency (RF) energy and saline for hemostatic sealing of soft tissue and bone at the surgical site. Vessels up to 1 mm may be occluded, reducing bleeding.



## Aquamantys® System

The Aquamantys System delivers Transcollation technology through a proprietary RF generator and a single-use disposable bipolar sealer.



## Recommended power settings

Initial Power	Flow
50W	Low

## Ordering Information

Description	Catalog Number
Aquamantys Mini EVS 3.4 Epidural Vein Sealer .....	23-314-1
Aquamantys Pump Generator .....	40-402-1

## References

1. Snyder BD, Hedequist D, Shannon E. Hemostatic Efficacy of Bipolar Wound Sealer as Adjunct to Wound Management in Children with Neuromuscular Scoliosis. Annual Meeting of the Pediatric Orthopaedic Society of North America 2007; Hollywood, FL.
2. Santiago P. Controlling epidural bleeding and improving visibility during spinal surgery with a novel bipolar sealing technology. Medtronic White Paper, 2009.
3. Mankin KP, Moore CA, Miller LE et al. Hemostasis with a bipolar sealer during surgical correction of adolescent idiopathic scoliosis. E-published in *J Spinal Disorders & Techniques*, October 2011; doi:10.1097/BSD.0b013e3182334ec5.

Caution: Federal Law (USA) restricts these devices to sale by or on the order of a physician.

For a listing of indications, contraindications, precautions, and warnings, please refer to the Instructions For Use (IFU) that accompany Aquamantys disposable devices and/or the Aquamantys System User Guide.

For further information, please call 866-777-9400 or 603-742-1515.

You may also consult our website:

[www.medtronic.com/advancedenergy](http://www.medtronic.com/advancedenergy)

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France 33-470-679-800  
Germany 49-2159-8149-209  
Greece 30-210-67-79-099  
Hong Kong 852-2919-1312  
Hungary 36-30-5052987  
India 91-22-26836733  
Israel 972-9-972-4400  
Italy 39-02-24137-324  
Japan 81-3-6430-2017  
Korea 82-2-3404-3600  
Lebanon 961-1-370-670  
Luxembourg 32-2456-09-09

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