CardinalHealth
Essential to care™

A-V Impulse™ Foot Compression System

A Step Beyond DVT Prophylaxis



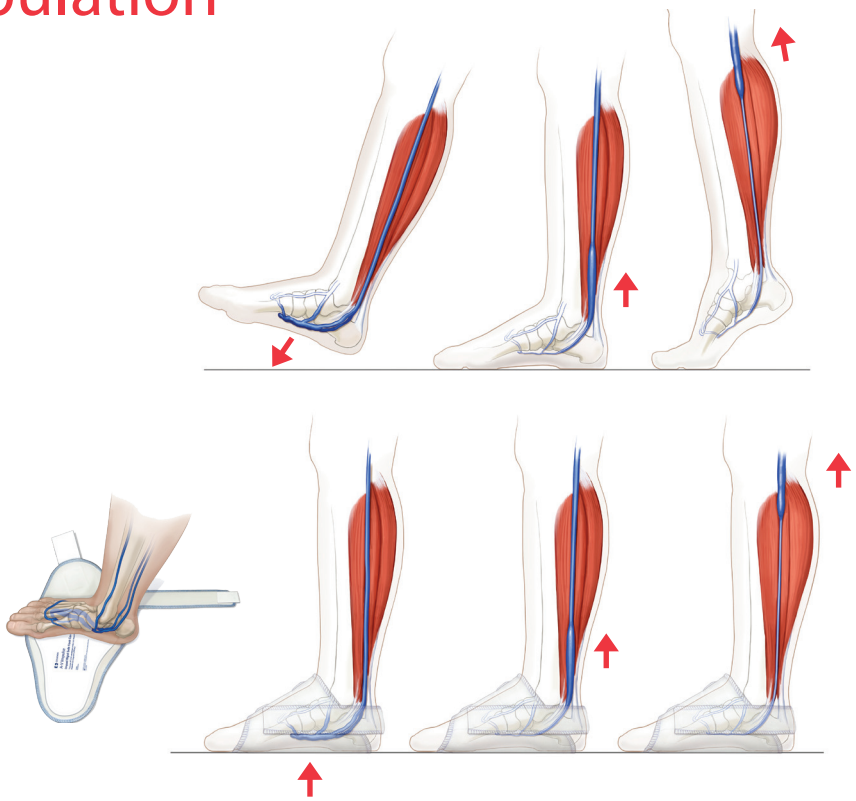
Mimics the natural hemodynamic action of normal ambulation

The natural sequence of physical venous flow

With every step, the plantar arch is flattened, causing the venous plexus to empty. This action sends a column of blood up to the heart, allowing plexus to refill.

A-V Impulse™ foot compression system mimics physical venous flow

The A-V Impulse™ ImPad™ features a hard rigid sole designed to contain and direct the impulse directly to the bottom of the foot. This action mimics the hemodynamic effect of ambulation by flattening the plantar plexus and completely evacuating blood from the bottom of the foot.





Default operating specifications

- 130 mmHg pressure
- 0.4 second rapid inflation simulates the weight bearing process
- 3 second hold time
- 20 second deflation

Unique design features

- Rigid sole
- Vent holes
- Cushioned foot cover
- Anatomically shaped bladder
- Dorsum wrap

Peace of mind for everyone involved

Nurses

Beyond a convenient, easy-to-apply solution for DVT Prophylaxis, the A-V Impulse™ ImPad™ rigid sole foot covers feature elements to address patient comfort and satisfaction in an effort to improve compliance.

Doctors

Beyond a clinically proven solution for DVT Prophylaxis, the A-V Impulse™ foot compression system is clinically proven to treat acute swelling and circulation enhancement; providing the physician with a single solution for proven outcomes with the clinician and patient in mind.

Patients

Beyond a comfortable solution for DVT Prophylaxis, the A-V Impulse™ foot compression system improves outcomes through swelling reduction and improved mobility.[1,2]

A-V Impulse™ Foot Compression System

DVT Prophylaxis

0% Fatal PE Rate[3]	In a study of over 3,000 elective hip surgery patients, the use of A-V Impulse™ foot compression and thigh length graduated compression stockings showed a 0% fatal PE Rate, 0.1% symptomatic DVT rate, and 0.07% symptomatic proximal DVT rate.[3]
75% Reduction of Overall DVT[4]	The addition of intra-operative A-V Impulse™ foot compression to a protocol of T.E.D.™ anti-embolism stocking and heparin has been shown to significantly reduce DVT from 27.27% to 6.6% in total hip arthroplasty (THA) patients as compared to T.E.D.™ anti-embolism stockings and heparin alone.[4]
0% Proximal DVT[2]	Adding A-V Impulse™ foot compression to a regimen of T.E.D.™ anti-embolism stockings and heparin has been shown to significantly reduce the incidence of proximal DVT from 2% to 0% in total hip replacement (THR) patients.[2]

Reduction of Swelling

34% Reduction of Post-Operative Thigh and Calf Swelling[2]	A-V Impulse™ foot compression has been shown to provide a 34% swelling reduction of the thigh and calf in THR patients.[2]
74% Reduction of Post-Traumatic Swelling[5]	A-V Impulse™ foot compression has been shown to reduce post-traumatic foot and ankle swelling by 74% 4 days post-injury.[5]
Reduction of Pain	The application of A-V Impulse™ foot compression has been shown to reduce pain due to calcaneal fracture/foot trauma by 63% as compared to patients not receiving foot compression.[1]
Greater Range of Motion	A-V Impulse™ foot compression has been clinically proven to increase post-traumatic range of motion in the ankle, as well as increase rapid flexion of the operative knee in total knee arthroplasty (TKA) patients.[1,6]
Enhance Circulation	A-V Impulse™ foot compression has been clinically proven to increase femoral blood flow velocity 250% over baseline in the reverse trendelenberg position.[7]
Increase Arterial Blood Flow	A-V Impulse™ foot compression has been clinically proven to increase arterial blood flow.[7]
Decrease Compartment Pressure	A-V Impulse™ foot compression has been clinically proven to decrease compartment pressure in trauma patients at risk of surgical decompression via fasciotomy.[7]
Decrease Time Out of Work	The application of A-V Impulse™ foot compression has been shown to decrease time out of work due to calcaneal fracture/foot trauma by 3 months as compared to patients not receiving foot compression.[1]



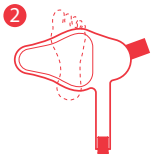


A-V Impulse™ foot compression system a step beyond DVT prophylaxis

Fitting

1. 

For improved efficacy, apply T.E.D.™ anti-embolism stocking or stockinette over the foot and ankle as required. Avoid wrinkles.

2. 

Select size of A-V Impulse™ ImPad™ foot cover. Place foot centrally as shown.

3. 

Wrap inside of the foot cover over top of foot. Overlap outside of foot cover. Secure the strap around the heel.



Comfort

Sweat, heat, itchiness, pressure and skin irritation are the top five discomfort factors patients experience with pneumatic leg compression. The A-V Impulse™ ImPad™ rigid sole foot covers feature elements to address patient comfort and satisfaction in an effort to improve compliance.

Sweat
Vent holes in the bladder circulate air between the patient's foot and A-V Impulse™ ImPad™ following each compression.

Heat
Cover less surface area than other forms of pneumatic compression, reducing the amount of area where heat could be trapped against a patient's skin.

Itchiness
Lined with a soft, polyester material to minimize patient discomfort.

Pressure
Pressure parameters are adjustable to maximize comfort for patients with sensitive extremities.

Skin irritation
Anatomically shaped and comprised of soft, foam polyester-lined material to cushion the patient's foot during use.

Ordering Information

Foot Compression

A-V Impulse™ ImPad™ Rigid Sole Foot Cover - Latex Free

Item No.	Women's Shoe Size	Men's Shoe Size	Size	Foot Circumference	Packaging
Z5065	5.5 - 9	4.5 - 8	Medium	up to 12 in.	4 pr/ca
Z5075	9.5 - 11.5	8.5 - 12.5	Large	up to 13 in.	4 pr/ca
Z5107	9.5 - 12.5	8.5 - 13.5	Extra Large	13-18 in.	4 pr/ca

IMPORTANT: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

1. Erdmann, et al. Os Calcis Fractures: A Randomized Trial Comparing Conservative Treatment with Impulse Compression of the Foot, BRITISH JOURNAL OF ACCIDENT SURGERY, 1992
2. Pitto, et al. Mechanical Prophylaxis of Deep Vein Thrombosis after Total Hip Replacement, JOURNAL OF BONE AND JOINT SURGERY, 2004
3. Sugano, et al. Clinical Efficacy of Mechanical Thromboprophylaxis without Anticoagulant Drugs for Elective Hip Surgery, THE JOURNAL OF ARTHROPLASTY, 2009
4. Bradley, et al. The Effectiveness of Intermittent Plantar Venous Compression in Prevention of Deep Venous Thrombosis After Total Hip Arthroplasty, THE JOURNAL OF ARTHROPLASTY, 1993
5. Myerson, et al. Clinical Applications of a Pneumatic Intermittent Impulse Compression Device after Trauma and Major Surgery to the Foot and Ankle, FOOT AND ANKLE, 1993
6. Windisch, et al. Pneumatic Compression with Foot Pumps Facilitates Early Postoperative Mobilisation in Total Knee Arthroplasty, INTERNATIONAL ORTHOPEDICS, 2010
7. Gardner & Fox, Reduction of Post-Traumatic Swelling and Compartment Pressure by Impulse Compression of the Foot, JOURNAL OF BONE AND JOINT SURGERY, 1990

For more information or to order, contact your local Cardinal Health Canada **sales representative today** or **call 1.888.291.5033**

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