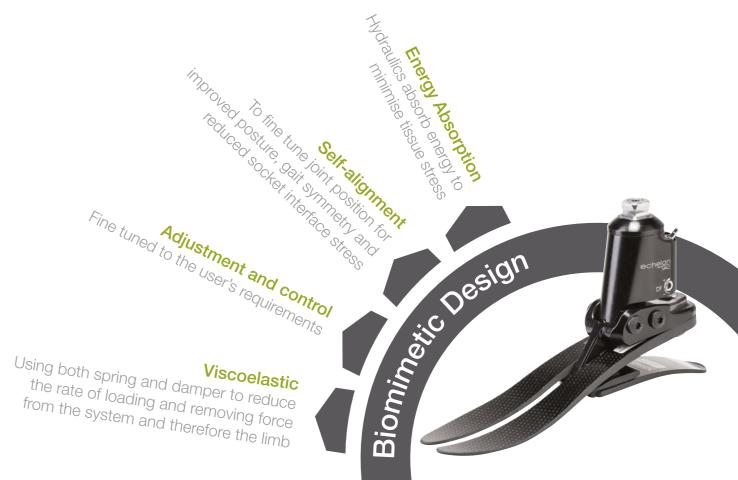




Optimal socket connection is critical to an amputee's comfort, security and stability. By pairing Biomimetic Hydraulic Technology with an elevated vacuum system, the design of EchelonVAC works to create a secure and comfortable socket connection.



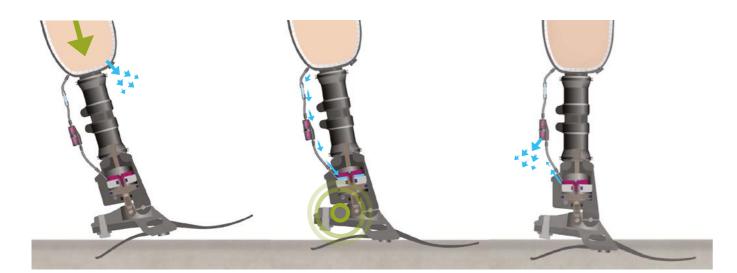
Relative movement is a major issue for amputees and can lead to:

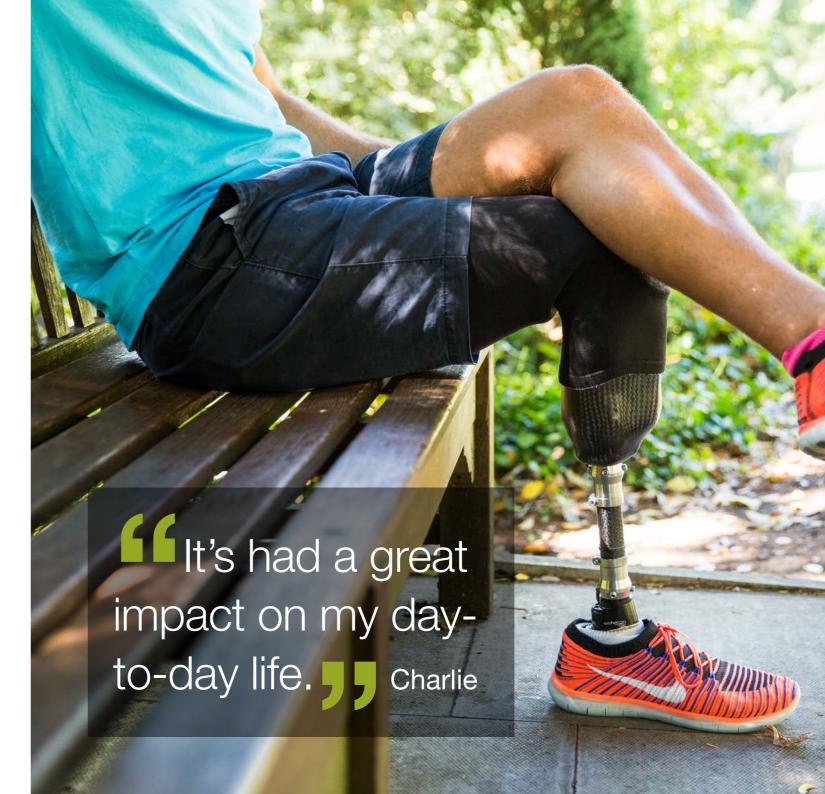


By harnessing natural ankle motion, EchelonVAC quietly creates elevated vacuum, helping to maintain an optimally fitting socket throughout the day.

With every step, the wearer presses their weight into the prosthesis, initially expelling air through a one-way valve. Simultaneously the ankle plantarflexes, actively drawing air out of the socket. This air is held in the vacuum chamber and expelled through a secondary one way valve as the tibia progresses and the ankle dorsiflexes.

The result is greater residual limb volume control and an improved connection between the residual limb and the socket. For the user, this reduces relative movement, improving proprioception and control of the prosthesis for greater comfort and safety every day.







Innovative Design

The innovative design of EchelonVAC is lightweight and has a low build height as no external power source is required.

With **no batteries** or **pump** to worry about, EchelonVAC is **quiet** and easy to fit.

When used in conjunction with a Silcare Breathe liner, the vacuum is applied directly to the residual limb to further enhance the connection between the limb and the socket.



The Evidence

Active vacuum systems help to stabilise residual limb volume to improve socket stability and proprioception. Scientific studies* have shown that elevated vacuum systems help to:

- Reduce volume fluctuation
- Reduce interface pressures
- Improve wound healing
- Reduce pistoning
- Improve gait symmetry, balance and reduce risk of falls
- Greater comfort and improved overall satisfaction

Features

- Biomimetic Hydraulic Technology with integrated elevated vacuum
- No power required, quiet gentle operation
- Lightweight, compact design
- Low build height
- E-carbon springs for efficient energy return
- Split toe design for ground compliance on uneven terrain
- Weatherproof suitable for outdoor use

Technical Information

 Maximum User Weight: 125kg Activity Level: 2*, 3, 4* Component Weight: 930q[†] 17" Hg Maximum Vacuum:

Build Height: Sizes 22-24: 121mm

> Sizes 25-26: 126mm Sizes 27-30: 131mm

Heel Height: 10mm

36 months Warranty:

Foot shell - 12 months Glide Sock - 3 months

Order Example

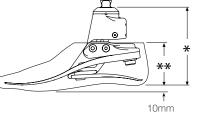


For dark tone add suffix D. Foot example: EchelonVAC. size 25 left, spring rating 3.

Spring Set Selection 60-68 69-77 78-88 89-100 101-116 117-125 kg (100-115) (116-130) (131-150) (151-170) (171-195) (196-220) (221-255) (256-275) lbs 2 3 4 5 6 7 8 Foot Spring Set







22 - 24 = 121mm

** sizes 22 - 24 = 70mm 25 - 26 = 126mm

25 - 30 = 75mm 27 - 30 = 131mm

^{*}Please see Clinical Compendium available to download at blatchford.co.uk/endolite/echelonyac

^{*}Dependent on local reimbursement guidelines. May not be suitable for running or high impact activities. [†]Component weight shown is for a size 26cm without footshell.

Patent numbers; US8308815, GB2536056 App, EP2124843 App, EP2124842 App, US8574312, US7985265, US8740991, US8641780, JP5336386, JP5560045, WO 2007/054736, WO 2008/071975, WO 2008/103917

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out any new activities of daily living that you have not received training for with your EchelonVAC.



