



Echelon^{VAC} Datasheet

EchelonVAC combines Echelon Technology with an elevated vacuum system for optimal socket connection.

With each step, the user 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 elevated vacuum reduces relative movement and helps to maintain limb volume, improving proprioception and control of the prosthesis.

Key Features

- ✓ Unique and proven Echelon Technology
- ✓ Vacuum system for ultimate socket connection throughout the day
- ✓ Designed to promote healthier residuum tissue
- ✓ No power required, quiet gentle operation





Unique and Proven Echelon Technology

EchelonVAC encompasses all the unique features of Echelon – the original hydraulic ankle. For over a decade, the Echelon range has provided users with clinically proven technology and is a popular choice worldwide.

- **E-Carbon Foot Spring Technology**

This not only provides excellent energy storing and release properties but also works in harmony with the range of movement in the ankle to provide a natural and comfortable walking experience.

- **Natural Motion & Control**

When walking up slopes, the additional range allows the body to move forward over the foot, reducing energy requirements by making rollover easier. When walking down slopes, the foot complies with the slope without forcing the leg forward, allowing for a more controlled descent.

- **Hydraulic Ankle Technology**

Hydraulic damping and foot springs produce a visco-elastic response that simulates the behaviour of muscles by storing energy and releasing it at the right time. When compared to non-hydraulic ankles[†], this technology is clinically proven to provide higher levels of comfort and safety, more natural walking, more balanced limb loading and overall greater patient satisfaction.

[†]Clinical studies, latest research papers and full references available on our website: <https://www.blatchford.co.uk/prosthetics/professionals/clinical-evidence/>

Technical Specification

| | |
|------------------------------------|---|
| Max User Weight | 125kg |
| Activity Level | 3 |
| AK/BK | Both |
| Size Range | 22-30 (sizes 25-27 available in Narrow and Wide) |
| Component Weight | 700g without foot shell |
| Build Height | Sizes 22-24: 121mm/Sizes 25-26: 126mm/ Sizes 27-30: 131mm |
| Heel Height | 10mm |
| Hydraulic Range of Movement | 9° (3°DF/6°PF) |
| Waterproof | No |
| Weatherproof | Yes |
| Product Code/Number | EVAC |
| Sandal Toe Foot Shell | Yes |
| Warranty* | 36 months |
| Adaptors | Foot has proximal male pyramid |

*Foot shell 12 months, glide sock 3 months

Order Example

| Product Code | Size | Side | Width* | Spring Set | Sandal Toe |
|--------------|------|------|--------|------------|------------|
| EVAC | 25 | L | N | 3 | S |

*Narrow (N) and Wide (W) available for sizes 25-27 only. For dark tone add suffix D. Example: foot size 25, left, narrow, spring rating 3, sandal toe.

Accessories

| | |
|--------------------------------|--------|
| Alignment Wedge | 940093 |
| DF/PF Adjuster Key | 940236 |
| Socket Connection Kit | 409663 |
| Check Valve Service Kit | 409863 |