

Harmony E2

Electronic vacuum pump system



Quality for life

Harmony E2

A strong connection

The Harmony E2 is an electronic pump option for the Harmony System, a proven and established active volume management system for amputees.

The Harmony E2 is designed for intuitive and easy use by the amputee. For example it is the first removable solution. Due to its connection to the prosthesis by a special 4-hole adapter plate it can easily be removed e. g. to charge it without removing the leg. The adapter plate with its integrated valve keeps the vacuum in the socket.

In combination with the other Harmony System components (e.g. an Anatomic 3D PUR Liner, a ProFlex Sleeve and the individually made socket in Harmony technique) the Harmony E2 provides volume management for the residual limb, enhanced suspension and reduced forces in the socket.



Features & Benefits

Harmony E2

Ease of use

- Rotary Switch to select and indicate setting at the same time. No sight necessary, touch is sufficient to “read” setting.
- Automatic Mode adjusts elevated vacuum according to activity level.
- 4 Manual Levels to adjust vacuum to personal preferences from comfort (small dots) to high suspension (large dots).
- Reverse Mode allows to flush the pump and to reverse air flow for a quick pressure relief.

Flexibility

- Easy removability of the pump unit e.g. for charging, weight reduction or switching between different legs. The adapter plate with its integrated valve keeps the vacuum in the socket.
- Rechargeable AA Batteries (also replaceable in case no power supply is available)
- USB Charging Cable
- Waterproof up to 3 m water depth – Splash water, rain or even going swimming in fresh water is no problem

Social Convenience

- Low Noise Emission – ~10dB less than other electronic pumps (10 dB increase resembles a doubling of the perceived sound volume)
- Lightweight – Pump including batteries weighs less than 200 g
- Modern Design
- Minimized Light & Sound Signals

Installation

- 4-hole Adapter Plate for convenient use with e.g. 5R2 or 6A94=3 socket connectors and the desired distal adapter
- Free orientation around the tube adapter: medial, lateral or even anterior, posterior
- Two Air Channels in connection plate for direct tubeless distal connection or use of a socket connector (e.g. for retro-fittings)
- No computer or programming required



User Profile

- MOBIS Activity Level: no limitation
- Body Weight: 150 kg
- Amputation: transtibial / transfemoral
- Clearance: 95 mm to foot (or knee)

Indication (includes pump):

- Volume fluctuations of the limb
- Diabetes and occlusive arterial diseases
- Prominent bone structures and difficult scar conditions
- Need for increased suspension due to higher activity level
- Need for a continuous, adjustable vacuum

Contra indication

- Interims fittings
- Dialysis patients
- Residual limbs that are not able to bear weight distally
- Neuroma, preventing patient from being able to bear pressure on the residual limb
- Missing cognitive abilities of the patient to “manage” the system

Features & Benefits

Harmony System

- Volume management in the residual limb
 - Enhanced proprioception
 - Enhanced Suspension
 - Reduced forces in the socket
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Technical Data



4R152 Harmony E2

Harmony E2 is an electronic pump option for the Harmony System. It provides volume management for the residual limb, enhanced suspension and reduced forces in the socket.

4R152=1 Harmony E2 with included Offset Plate for use above wider components such as the C-Leg, Genium, X3, or certain feet.

4R153=1 Offset Adapter Plate only, for use to retrofit an existing Harmony E2 socket above wider components.



4R152=1 Harmony E2 with Offset Plate



4R153=1 Offset 4-Hole Adapter Plate

Article number	4R152 Harmony E2	4R153 4-Hole Adapter Plate	4R152=1 Harmony E2 with Offset Plate	4R153=1 Offset 4-Hole Adapter Plate
Weight	185 g	125 g	185 g	160 g
System height	95 mm	22 mm	95 mm	22 mm
Material	–	Aluminium	–	Aluminium
Max. body weight	–	150 kg	–	150 kg
Temperature range for use	-10 °C to +60 °C (14 °F to 140 °F)	–	-10 °C to +60 °C (14 °F to 140 °F)	–
Battery charger operating voltage	100–240 V	–	100–240 V	–
Battery charger operating frequency	50–60 Hz	–	50–60 Hz	–
Battery charging temperature	0–45 °C (32 °F to 113 °F)	–	0–45 °C (32 °F to 113 °F)	–
Vacuum (max)	750 mbar	–	750 mbar	–