



12 CHAMBER INTERMITTENT PNEUMATIC COMPRESSION SYSTEM

Hydroven 12



A legacy you can trust

Arjo has been innovating and developing products that assist in the management and treatment of vascular and lymphatic conditions for over 30 years. Along with our world class hand held Dopplers and vascular assessment systems, Arjo is uniquely positioned to offer clinicians comprehensive solutions for the holistic assessment and treatment of vascular conditions.

Designed for patient comfort and compliance

The Problem

Disruption of the lymphatic system has severe and sometimes debilitating lymphedema implications for the patient. Lymphedema has no cure but can be successfully managed when diagnosed and treated.¹

The solution

Hydroven® 12, with its unique LymphAssist™ mode, is an advanced Intermittent Pneumatic Compression (IPC) system which has been designed to offer both clinicians and patients an effective treatment option to manage lymphedema.

Developed in conjunction with Manual Lymphatic Drainage (MLD) therapists, Lymphedema Specialists and Tissue Viability nurses, *Hydroven 12* delivers a gentle and effective treatment for your patients.

In addition to the management of lymphatic conditions, *Hydroven 12* is effective in the treatment of the following conditions, when combined with an individualized monitoring program:

- Acute and chronic wound management
- Chronic venous insufficiency
- Edema management

Choice of three automatic treatment profiles

The *Hydroven 12* system is comprised of an intelligent pump and a range of multi-chamber arm and leg garments capable of delivering three types of treatment options.

LymphAssist™ therapy - Exclusive to Hydroven

The unique *LymphAssist* mode replicates the basic principles of Manual Lymph Drainage (MLD). The automatic pressure and multi-chamber sequencing helps to promote efficient fluid transfer through the patient's lymphatic system.

This gentle 'directional', rhythmic massaging stimulates the lymphatic vessels encouraging the transport of proteins and waste products away from affected areas.

Graduated sequential therapy

The graduated sequential therapy provides a controlled pressure differential between adjacent chambers in each garment. This therapy helps restore the natural hydrostatic balance of the limb being treated.

Wave therapy

Wave therapy produces a gentle peristaltic cycle for those patients who may be unable to tolerate graduated sequential compression.

The flexibility of this 'three-in-one' approach provides clinicians with the confidence that the treatment can be tailored to suit the clinical indications and patient's requirements. Each profile allows clinicians to optimize pressure settings and treatment times to deliver the most effective treatment for managing vascular conditions.

Flexi-hose

The new flexi-hose allows the patient to be positioned comfortably without compromising access to system controls or indicators. The easy to clean and anti-kink hose assists efficient system set up.

Graphical control panel

The new graphical control panel incorporates high visibility LED displays that separate the main system controls.

Garment pressure and mode are displayed on the upper display, while the timing and cycle information are displayed on the lower display. This efficient layout keeps both user and clinician informed of the treatment cycle.



New 12 chamber garment insert



New graphical control panel

Single or bilateral therapy

Single or bilateral therapy is possible by simply connecting two garments to the *Hydroven 12* system. A simple polarized push fit allows safe and accurate garment connection.

Garments and inserts

The comfortable 12 chamber garments move fluid away from the affected areas, in conjunction with the customized treatment profiles.

Inserts can be used to accommodate larger limbs. The overlapping chambers under the 'zip in' insert provide total circumferential compression, which assists with the effective transport of fluid.

Anti-tamper and lock feature

The pressure, cycle time and treatment options are protected by a lock feature which prevents accidental adjustment of the treatment profile.

Specifications

| Intermittent Pneumatic Compression System | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order code | 316003US |
| Supply voltage | 100VAC to 220VAC |
| Supply frequency | 50 - 60 Hz |
| Power input | 38 - 77 VA |
| Degree of protection against electric shock | Class II, double insulated Type BF |
| Degree of protection against liquid ingress | IPXO - no protection |
| Mode of operation | Continuous |
| Size | 11.4" x 9.8" x 5.1" |
| Weight | 8.4 lbs |
| Pressure range | LymphAssist 15-40 mmHg Sequential 15-120 mmHg Wave 15-100 mmHg All modes +/-5% |
| Cycle times | Inflation - 30-95 sec in 5 sec increments Deflation - 10-95 sec in 5 sec increments Treatment time - 10-99 minutes or continuous (maximum 2 hrs) |
| Treatment modes | LymphAssist, Gradient Sequential and Wave |

| Garments | | | |
|------------|----------------------------|------------|------------------------------|
| Order Code | Description | Length (L) | Thigh Circumference |
| 316L76S | Leg Garment Standard Width | 30" | 28" |
| 316L84S | Standard Leg | 33" | 28" |
| 316L76W | Leg Garment Large Width | 30" | 31" |
| 316L84W | Wide Leg | 33" | 31" |
| Order Code | Description | Length (L) | Additional Width at Thigh |
| 316LI76 | Leg Insert Standard Width | 30" | 7 1/2" |
| 316LI84 | Leg Insert Large Width | 33" | 7 1/2" |
| Order Code | Description | Length (L) | Circumference Shoulder (H) |
| 316A68 | Arm Garment Standard Width | 26" | 24" |
| 316A78 | Arm Garment Large Width | 30" | 24" |
| Order Code | Description | Length (L) | Additional Width at Shoulder |
| 316AI68 | Arm Insert Standard Width | 26" | 6 1/2" |
| 316AI78 | Arm Insert Large Width | 30" | 6 1/2" |

Clinical evidence - Intermittent Pneumatic Compression (IPC) and Manual Lymph Drainage (MLD) provide a synergistic enhancement of the effect of Complex Decongestive Physiotherapy (CDP).

IPC can be used safely and effectively for the treatment of patients with breast carcinoma associated Lymphedema. The ease of application of IPC as a long term therapeutic intervention suggest that it may warrant more widespread use in this patient population. The therapy is well tolerated and remarkably free from complications.²

1. National Lymphedema Network. Position statement of the National Lymphedema network - updated Feb, 2011.
2. Szuba A et al (2002). Decongestive lymphatic therapy for patients with breast carcinoma associated Lymphoedema. *Cancer*; 95 (11): 2260-2266.

At Arjo, we are committed to improving the everyday lives of people affected by reduced mobility and age-related health challenges. With products and solutions that ensure ergonomic patient handling, personal hygiene, disinfection, diagnostics, and the effective prevention of pressure ulcers and venous thromboembolism, we help professionals across care environments to continually raise the standard of safe and dignified care. Everything we do, we do with people in mind. www.arjo.com

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