

# Sequential Circulators

## Gradient, Sequential, Pneumatic Compression Devices



E0651

### MODEL 2004 SPECIFICATIONS

Dimensions H x W x D: 5.5 x 12 x 8  
 Weight: 8 lbs.  
 Pressure Range: 25-100mm Hg  
 Electrical Rating: 120 VAC, 60 HZ, .5 A  
 Cycle Time: 18 secs per chamber  
 Inflation: 72 secs.  
 Deflation: 18 secs.  
 Warranty: 3 years  
 Bi-lateral operation



E0652

### MODEL 3004 SPECIFICATIONS

Dimensions H x W x D: 5.5 x 12 x 8  
 Weight: 8 lbs.  
 Pressure Range: 25-100mm Hg  
 Electrical Rating: 120 VAC, 60 HZ, .5 A  
 Cycle Time: 18 secs per chamber  
 Inflation: 72 secs.  
 Deflation: 18 secs.  
 Warranty: 3 years  
 Bi-lateral operation



E0652

### MODEL 3008 SPECIFICATIONS

Dimensions H x W x D: 5.5 x 12 x 8  
 Weight: 8 lbs.  
 Pressure Range: 0-125mm Hg  
 Electrical Rating: 120 VAC, 60 HZ, .5 A  
 Inflation: 40 secs.  
 Deflation: 4.4 secs.  
 Warranty: 3 years  
 Bi-lateral operation

## Reduce Lymphedema, Reduce Pain

When lymphedema is diagnosed promptly and treatment begun early, patients enjoy productive lives, with few complications. When lymphedema remains undiagnosed or untreated, the outcome is often painful and costly. **SEQUENTIAL CIRCULATORS** are designed to relieve swelling from any extremity by progressively moving fluid in a distal to proximal direction. **SEQUENTIAL CIRCULATORS** mimic the lymphatic system. The "milking" effect promotes lymphatic flow by moving fluid in the proper physiological direction. *Two extremities can be treated simultaneously.*



Lymphedema of the Upper Extremity



Lymphedema of the Lower Extremity

## Wound Healing and Gradient Pressure

Open wounds provide clinicians with some of their most severe challenges. **SEQUENTIAL CIRCULATORS** provide sequential gradient pressure dramatically increasing circulation. Even the most stubborn wounds heal faster. By reducing edema at the wound site, sequential gradient pressure accelerates the healing process.

*Clinical Studies have shown that sequential, gradient, pneumatic compression greatly increases the rate of venous ulcer healing.*



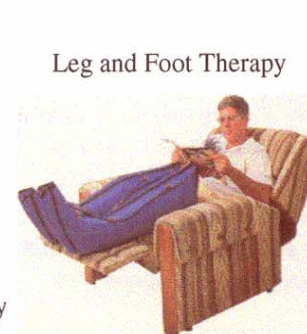
## Venous Insufficiency

Sequential, gradient pressure is the cornerstone in treating patients with various vascular disorders. **SEQUENTIAL CIRCULATORS** stimulate circulation by providing a continuous massaging action. **SEQUENTIAL CIRCULATORS** provide an effective prophylaxis for venous thrombosis.

## Cost-Effective • Portable Lightweight • Easy to Use



Arm and Hand Therapy



Leg and Foot Therapy

### INTENDED USE

Bio Compression Systems' Sequential Circulators are manual, sequential, pneumatic compression devices, intended for the primary or adjunctive therapy treatment of primary or secondary Lymphedema. The device is additionally intended for the additional or alternate treatment of venous insufficiency and chronic venous stasis ulcers associated with venous insufficiency, as well as general treatment of swelling of the extremities. The device is intended for home or hospital use.

### CONTRAINDICATIONS

Pneumatic compression therapy is contraindicated for the patients with the following:

- Congestive heart failure
- Deep vein thrombosis
- Inflammatory phlebitis or episodes of pulmonary embolism
- Infections in the limb, including cellulitis, without appropriate antibiotic coverage
- Presence of lymphangiosarcoma

All Bio Compression Systems Products are made in the U.S.A.  
 120 W. Commercial Ave., Moonachie, NJ 07074

## A word from the experts about Gradient, Sequential, Pneumatic Compression Pump Therapy...

*"The median rate of ulcer healing in the control group was 2.1% area per week compared to 19.8% area per week in the intermittent pneumatic compression group. The results indicate that sequential, gradient, intermittent pneumatic compression is beneficial in the treatment of venous ulcers."*

Philip Coleridge Smith, BCh, FRCS  
 Department of Surgery, University College and Middlesex School of Medicine, London, England

*"Data analysis revealed a mean healing rate of .08 cm<sup>2</sup> per day for control subjects and .15 cm<sup>2</sup> per day with the use of intermittent pneumatic compression. The results appear to indicate that intermittent pneumatic compression is beneficial in the management of venous insufficiency ulcers."*

Joseph M. McCulloch, PhD, Dept. of Rehabilitation and Physical Therapy, LSU Medical Center

*"Pekanmaki et al. reported a mean ulcer healing time of 5 weeks with intermittent compression therapy versus the control group's mean ulcer healing time of 13 weeks with conservative wound care treatment alone."*

-Clinical Exp Dermatology, K. Pekanmaki, P.J. Kolari and U. Khstala

*"Pneumatic Compression pumps have been used in lymphedema treatment for over 30 years...I believe that compression pumps play an important role in the treatment of lymphedema. It can be especially important for elderly patients who have significant problems with putting on compression garments and/or bandaging. Pneumatic compression pumps are valuable tools in maintenance therapy of lymphedema."*

Andrzej Szuba MD, PhD, Stanford Lymphedema Center, Stanford University-