

## DELIVERING A NEW AIR OF CONFIDENCE



The all-in-one Lumenair™ EECP® Therapy System is the state-of-the-art enhanced external counterpulsation system from Vasomedical, the world leader in external counterpulsation technology.

Backed by years of clinical research and numerous published data, the Lumenair™ system incorporates the proven performance of EECP® technology in a sleek, self-contained unit that is easy to use and fosters patient confidence, comfort and compliance.

### ADVANCED TECHNOLOGY

- Unique, proprietary timing algorithm based upon years of clinical data and expertise.
- Patented pneumatic system delivers optimal therapeutic pressure consistently, safely and comfortably.
- Close-loop pressure stabilization system monitors air pressure beat by beat and ensures consistent effective treatment pressure over a wide range of heart rates.
- AutoChart software automatically captures patient treatment data during EECP® therapy. A summary of timed snapshots, which include ECG and plethysmograph waveforms taken at varying intervals, can be printed or stored electronically.

### CONVENIENCE AND EASE OF USE

- Color touch screen display provides a simple, convenient and efficient way to monitor the patient while controlling system operation. All information and treatment controls displayed on one screen.
- Integrated work station and display, which can be mounted on either side of the table.
- ComfortCurve™ treatment table top with quality foam mattress and pillow provide better patient positioning for comfort and compliance.
- Small footprint allows system to fit in most treatment rooms.
- Twilock™, a proprietary cuff quick connect/disconnect system enables easy change of cuffs between patients.

# VASOMEDICAL® - LUMENAIR™ EECP® THERAPY SYSTEM SPECIFICATIONS

## ECG Amplifier

Input impedance: >2 MΩ  
Common mode rejection ratio: >90 dB  
Bandwidth: 1-20 Hz on display

## SpO2 Oxygen Saturation

Oxygen saturation range: 0 to 100%  
Accuracy SpO2 (± 1 Standard Deviation)  
70–100% ± 2 digits for adults using the Finger Clip Sensor  
70–100% ± 3 digits for adults using Flex or Reflection Sensors  
70–100% ± 4 digits using Ear Clip Sensor  
Below 70% is not specified for all sensors

## Triggering Method

External trigger: R-wave of patient ECG  
External trigger ratio: 1:1 or 1:2  
ECG trigger range: 35-125 ±1 bpm

## Filter Technique

Low-pass digital filter eliminates 50/60 Hz and high frequency interference.

## Treatment Pressure Range

Adjustable from 80-300 mmHg

## Cuffs

Each set includes calf, lower thigh and upper thigh/buttock cuffs.

## Table Safe Working Load

400 lb (180 kg)

## Treatment Session Timer

Set treatment time up to 60 minutes maximum. System automatically stops when set time expires

## System Protection

Three circuit breakers — Mains and compressor, and a built-in circuit breaker in the power switch on the front panel

## Patient Protection / Safety

- ▶ Automatic inflation stop and pressure release on early extra systole.
- ▶ Automatic treatment stop and pressure release if power outage occurs.
- ▶ Automatic high-pressure limit.
- ▶ Automatic treatment stop if heart rate goes out of range (35-125 bpm).
- ▶ Emergency stop hand-held button (actuated by patient).
- ▶ Alarm with auditory signal on stop events (except a power outage).

## Equipment Dimensions and Weight

Height: 42" (107 cm)  
Width: 34" (87 cm)  
Length: 78.5" (200 cm)  
Weight: 550 lb (250 kg)

## Operating Voltage Requirements (switch selectable)

115VAC, 50/60 Hz, 20A  
230VAC, 50/60 Hz, 15A

## Operating Environment

Temperature: 50 to 104° F (10 to 40° C)  
Relative Humidity: 30 to 75%  
(no condensation)  
Atmospheric Pressure: 700 to 1060 hPa  
Atmosphere: Free of corrosive gas

## Transport and Storage Environment

Temperature: 14 to 140° F (-10 to 60° C)  
Relative Humidity: 30 to 85%  
(no condensation)  
Atmospheric Pressure: 500 to 1060 hPa  
Atmosphere: Free of corrosive gas



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