NOMAD NANO

High Flow Pulsatile Pump System

A powerful, compact, precision-engineered pulsatile flow system built for R&D, engineering, and field demonstrations. The NOMAD NANO is the smallest and most economical pulsatile pump in the market, delivering flow rates up to 8 L/min while maintaining the performance, versatility, and control required for cardio and neurovascular simulation.

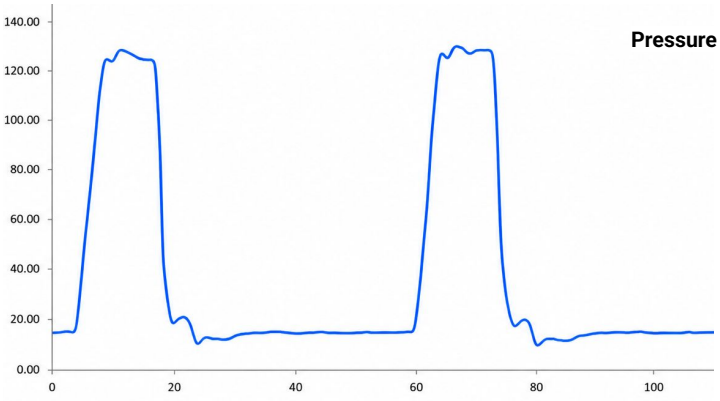
System Features

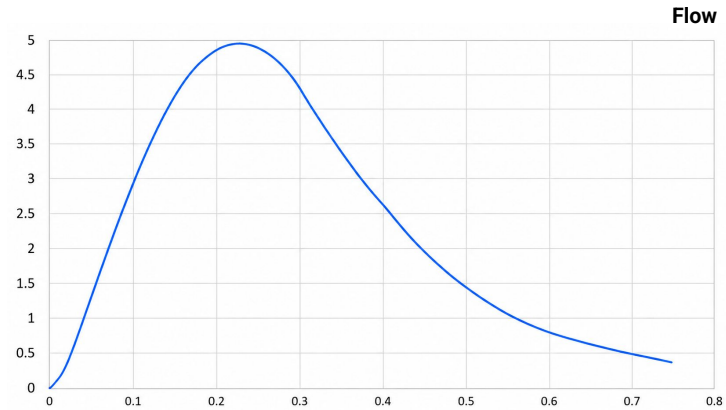
• Pulse Rate: 0-180 BPM (250ms pulse duration) • Adjustable Flow Power (0-100% or 0-5L/min) • Can Run Continuous
• Maximum Output Flow: 8L/min (1/2" Barbed Ports) • Maximum Output Pressure: ~450 mmHg • Travel-Sized System
• Configurable Ports: Valved (CPC) or Barbed Ports • Low Power Rating 12V System (Power Supply: 12VDC 5A - 60W)

System Specifications

• **Dimensions**: (5.00*4.00*5.00)in • **Enclosure Materials**: ABS or PLA • **System Total Weight**: 1.5lb

Flow and Pressure Waveform Characterization Test





Test Configuration

Pressure and flow testing was performed with the NOMAD NANO connected in a closed-loop configuration using a 12-inch, 3/8-inch ID rigid PVC circuit. A water reservoir was filled with one liter of water, thermally conditioned to 98.6°F (37°C). The system was operated at 60 BPM and 100% Flow Rate (CPC - PLCD 16006).

Pressure waveform data was acquired using the Vascular-Labs DPM (Digital Pressure Monitor). Flow rate data was collected using a multi-sensor array comprising an analog flow meter, a digital flow sensor, and a high-speed camera.

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