



Product Description

The PhysioPulse 100 Flow System is designed to generate realistic, accurate and repeatable physiological volume flow waveforms. The system is pre-programmed with waveforms and allows for the downloading of user-defined flow waveforms. Volume flow waveforms are downloaded via a USB port.

The PhysioPulse 100 Flow System offers a flow range of 1.0 to 100 ml/s. Each system is calibrated and accompanied with a certificate of calibration specifying the calibration results at relevant flow rate intervals, as well as a calibration constant to verify the pump system accuracy.

Applications

Scientific research, new technology development and new product testing that requires reliable, accurate and repeatable pulsatile and constant flow waveforms for ultrasound, computed tomography and endovascular device flow applications.

Product Features

Flow range of 1.0 to 100 ml/s.

Realistic physiological volume flow waveforms.

Pulsatile and constant flow waveforms.

Reproducible waveforms.

Programmable waveforms.

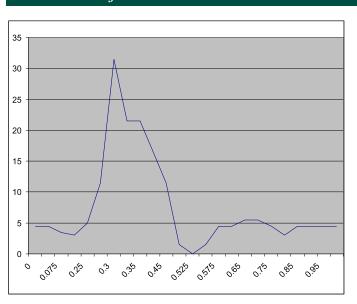
Proprietary embedded physiological flow waveforms.

User-defined waveforms can be downloaded.

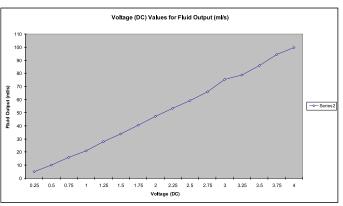
Calibration certificate.

USB connection to download user-defined waveforms.

Aorta Waveform



Voltage (DC) Values for Fluid Output (ml/s)





PhysioPulse 100 Flow System



Fluid Flow Specifications

Volume Flow Range 1.0 - 100 mL/s Sine Waves of up to 1.5 Hz Physiological flow waveforms excluding reverse flow

Mechanical Specifications

High-torque servo-motor Gear Box with 5:1 Ratio Gear Pump Self-Sealing 5/8" inner diameter plastic connectors

Computer Control

Functional USB Port for user supplied computer

Interface Options

User Supplied Computer, Monitor, keyboard and Mouse TracerDAQ Interface Software

File Format

Waveform data is stored on the user's computer Waveforms can be looped continuously

Electrical

115 VAC, 50/60 Hz, 6 Amp @ 120V 1 USB Connection on Front Panel

Standard Calibration

Flow Rate Sheet indicating the flow at different voltages

Physical

Pump Unit Dimensions: 17" l. x 17 3/4" w. x 10 1/2" h.

Pump Unit Weight: 60lbs. (27kg)

Reservoir Capacity: 6 litres

Circulating Fluid Volume: 1.5 litre minimum

Accessory Products

Anatomically correct heart and vascular phantoms Blood mimicking fluids for; ultrasound, CT and endovascular applications.



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