

ENDOVASCULAR SIMULATOR

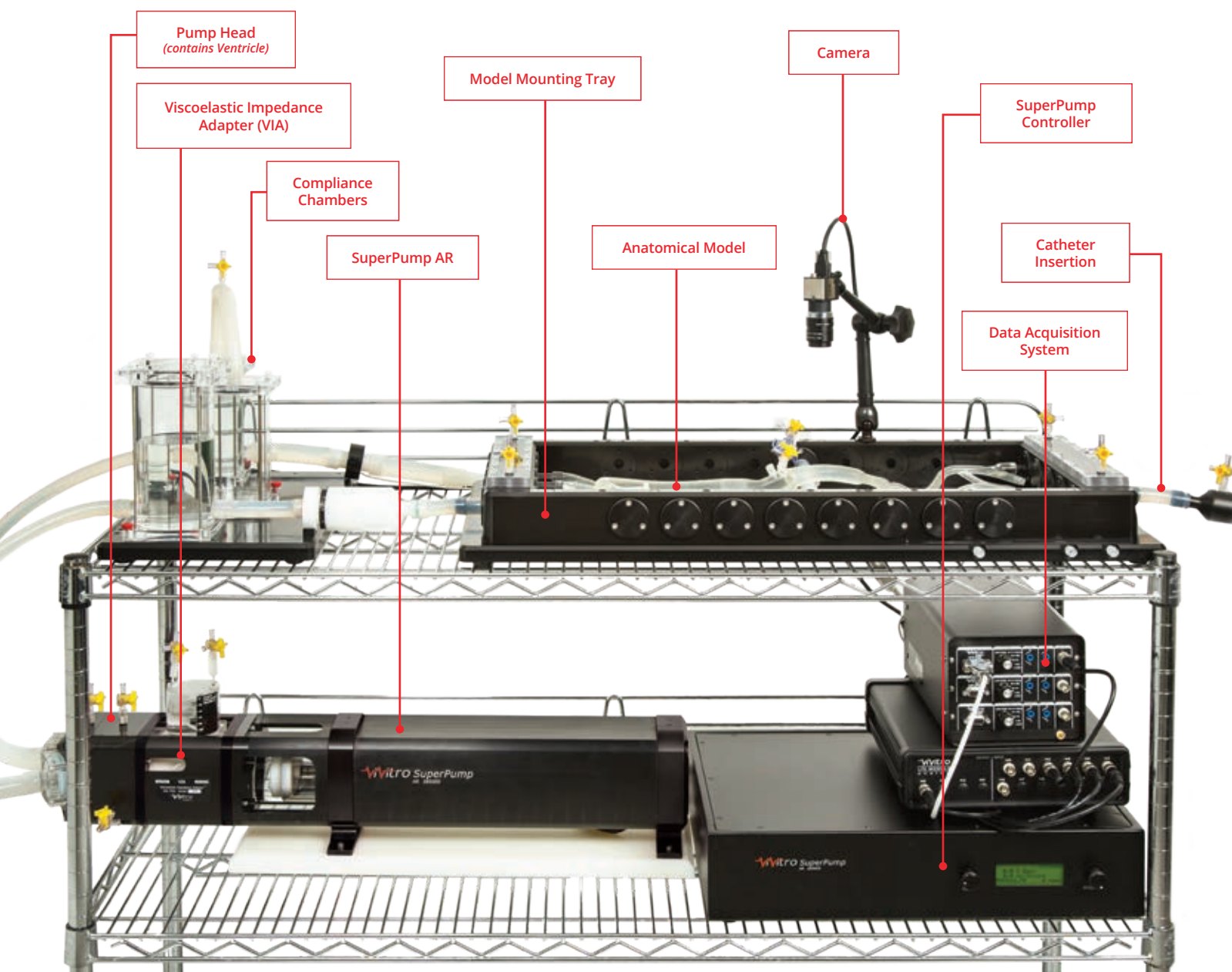
Device simulation testing and training

Product Code: Tray 30543 // Compliance 25654

The ViVidro Endovascular Simulator can be used for any portion of the cardiovascular system. Our vascular flow platform brings physiological pulsatility to anatomical models for research and development.

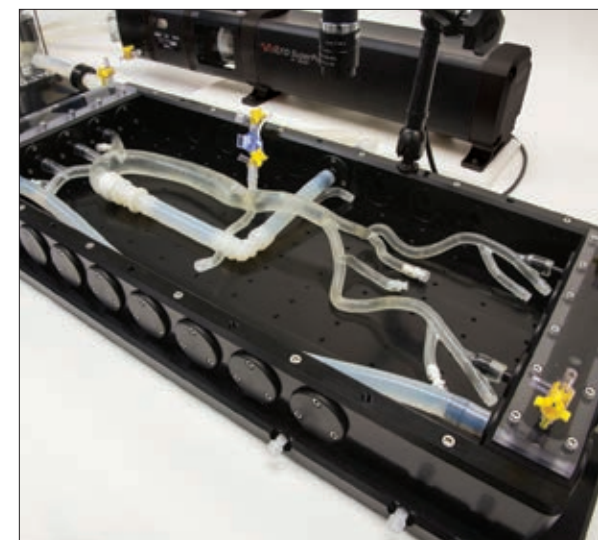
The simulator can easily be reconfigured for benchtop, cath lab or portable cart installation.





Designed for Easy Adaptability

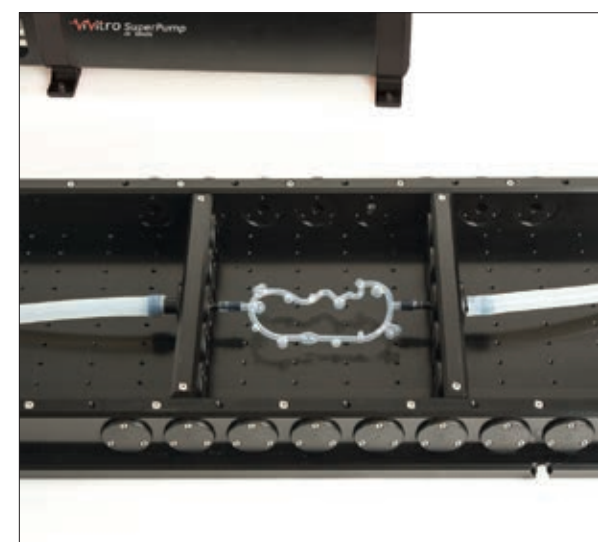
The simulator's tray is a modular platform that accommodates anatomical models for a variety of transcatheter or surgical vascular interventions. It is easily reconfigured for different model sizes and connection types.



Aorta Model with Femoral Access



Lower Leg Arterial Model



Neuro Aneurysm Model



A compliance assembly provides adjustable air volume to allow system tuning for a wide range of pressure conditions.

The EV Simulator provides functional design testing for:

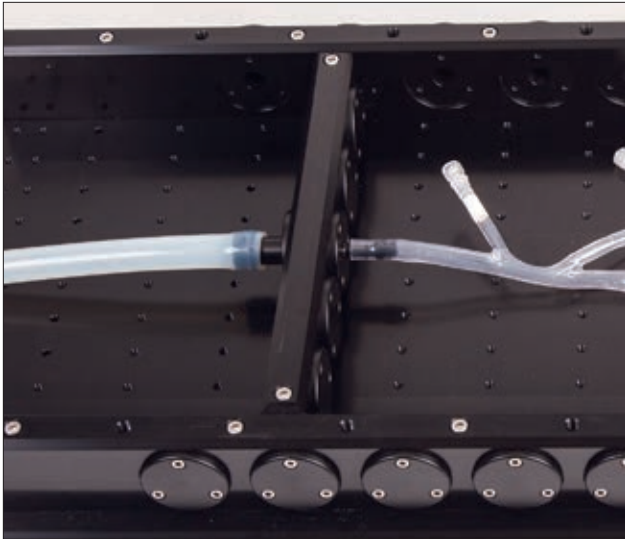
- Stents
- Stent Grafts
- Balloons
- Wires
- Coils
- Filters
- Transcatheter Heart Valves

Assess:

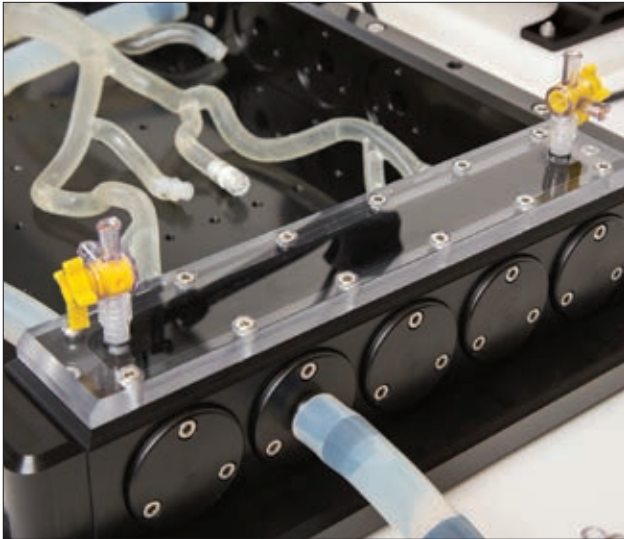
- Pulsatile Flow Interactions
- Positioning
- Deployment Accuracy and Force
- Sizing
- Conformability
- Trackability and Pushability
- Torquability
- Securement Measuring

Set-up is straightforward and simple

Inlet and outlet ports can be swapped out for the optional manifold for joining the return flow paths.

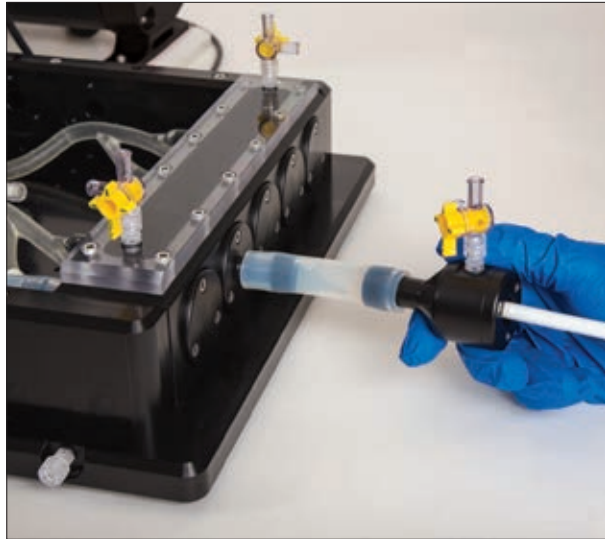


Inlet/Outlet Port



Optional manifold for joining return flow paths

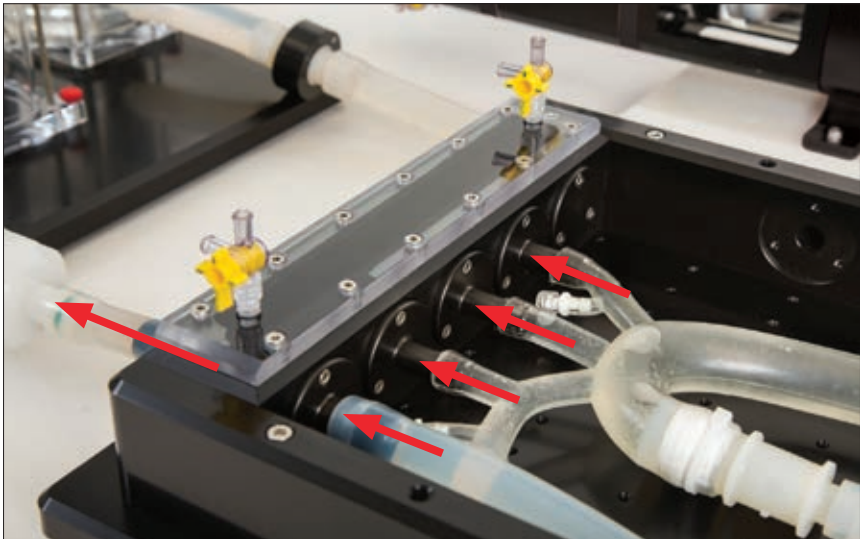
Optional add-ons keep costs down while increasing system capabilities as needed



Catheter insertion ports facilitate device deployment, and measurement device insertion.



A Viscoelastic Impedance Adaptor provides input waveform compliance to create physiological pressures and flows.



Red lines indicate inlets, and outlet/return flow



Maintain physiological fluid temperature up to 40°C using the optional heating system.



Capture and display flows and pressures from any point in the system with the Data Acquisition System.



A digital camera captures high resolution imagery of positioning and deployment. It can also be used to simulate fluoroscopy without the use of an expensive cath lab.



Capture high resolution video



Simulate fluoroscopy

Interchangeable Components

SUPERPUMP

Product Code: 10647

The most widely used computer-controlled pump for cardiac flows



The ViVibro SuperPump that powers the Endovascular Simulator is also the foundation for ViVibro's Pulse Duplicator and Real Time Wear Tester. The SuperPump can be operated independently with any type of cardiac flow loop.

The SuperPump provides pulsatile flow from 3 to 200 Beats per Minute and up to 15 Litres per Minute output. A Pump Head facilitates circulatory flow using two valves.

REAL-TIME WEAR TESTER (RWT)

Product Code: 20174



The ViVibro Real-Time Wear Tester (RWT) is a quasi-real-time wear tester for heart valve replacements, venous Valve replacements, occluder devices, cardiac patches or strips, medical sutures, staples or clips, and other cardiovascular devices.

PULSE DUPLICATOR

Product Code: 18363

The world's most widely-used heart model



The ViVibro Pulse Duplicator simulates the function of the heart (left or right) by generating pulsatile flow through prosthetic heart valves placed in the Left Heart Model.

Optional Components

The ViVidro Endovascular Simulator shares many other ViVidro product elements. This provides a low cost upgrade path, re-use of common parts, and ease of use.

Heat Exchanger

Product Code: Heat Exchanger - HE9991



Heat Bath

Product Code: Heat Bath
Temperature Controller
- 10679 N.A., 10680 Int'l



Viscoelastic Impedance Adapter (VIA)

Product Code: VIA7991



Contact us for a video demonstration and free consultation.

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ViVidro Labs Inc.
First in Cardiovascular Device Testing