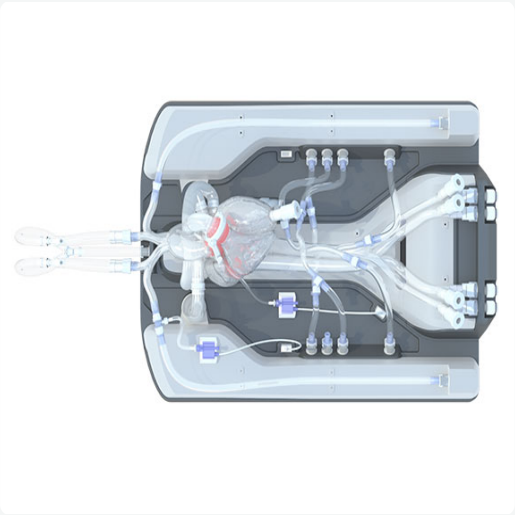


Replicator PRO™

Advanced Physiological Flow System

Replicator PRO™ is an advanced endovascular replication system that physically simulates valvular, vascular, and neurovascular disease states with matched physiological flows.
With flow powered by a realistically beating 3D heart, the entire model delivers a life-like hemodynamic performance across a broad range of blood pressures, heart rates, and cardiac outputs that can be manipulated via the Replicator app.
Used in clinical training and research & development, this modular solution yields a versatile patient model that is experienced with true tactile feedback when utilizing endovascular devices.

- Advances medical device research and development
- Accelerates the operator learning curve
- Hones endovascular surgical skills and competency
- Improves patient outcomes

ORDER TODAY

This Product is designed for:

Medical device educational and field staff | Medical professionals working in a cath lab | Interventionalists within Neuroradiology, Cardiology, Radiology, including fellows and residents in training and cathlab teams | Vascular surgeons

Limitless Versatility
Highly modular system for a broad range of endovascular applications.

Realistic Representation
Replicator PRO's human-like functioning allows for a high fidelity device performance at any event.

Manipulate & Customize
Alter flow rates and customize anatomies from patient-specific scans.

Angiography Compatible
Fully compatible under angiography with no image artifacts (metal-free system).

Features & Benefits

Key Benefits

The Replicator PRO flow system is what powers and supports consistent and reliable results each and every time.

Multiple Access points: Includes femoral, transapical, radial, axillary, and carotid entry points.

High-performance silicone vasculature with advanced, life-like feedback allows you to perform minimally invasive procedures including EVAR, TEVAR, TAVR, FEVAR, and more. The system allows you to easily switch between procedures with quick configuration of silicone vasculature.

Record your sessions with PRO under angiography for later insights. The system produces clear imagery free of artifact and provides a means for users to look back and learn as well as demonstrate and teach.

The system includes an anatomically accurate 4-chamber heart with replaceable valves. The 3D silicone model imitates a beating heart that powers the flow of the system through the anatomy. This flow is further manipulated to provide unique case scenarios for any goal.

Change the heart rate, blood pressure, and cardiac output with the Replicator PRO app. Fit for a variety of case scenarios to output any physiological behavior that is relevant to your goals.

Features

Enables effective training on interventional procedures and devices to accelerate product development and research with confidence

One system, multiple specialties -Structural heart, Vascular and Neurovascular

Cranial housing (optional)

- Realistic head enclosure.1)
- Reflex™ performance silicone vasculature
- Gel suspension replicates vessel deflection
- Aneurysm, stenosis, and ischemic stroke replication
- Plug-and-play

Structural heart

- Anatomically correct heart and chamber positions
- Replaceable silicone aortic valve
- Three heart orientations

Aortoiliac vasculature

- Accommodate several levels of tortuosity and aneurysms sizes
- Multiple access points - up to 26F

Endovascular responsive terrain

- Vasculature tethering enables realistic device behavior
- Platform replicates pelvic curvature

Angiography compatible

- Clear imagery free from artifact

Wireless connectivity

- Variety of scenarios to output any physiological behavior controlled by app

Ease-of-use

- Designed for convenience, offering a self-priming system, custom or pre-set operating modes and control tablet.

Procedure Versatility

Enabling a Range of Interventional Procedures

Structural Heart

- TAVR: Replaceable, physiologically functional aortic valve

Aortic Disease

- EVAR and TEVAR procedures
- Modular aortoiliac for range of interchangeable vasculature
- Patient-specific vasculature available

Neurovascular

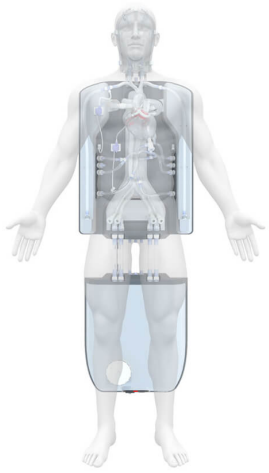
- Flow diversion
- Embolization
- Coil Embolization
- Mechanical Thrombectomy•
- Balloon-assisted coiling
- Stent-Placement

Peripherial Vascular

- Visceral aneurysm embolization
- Designed for anatomical expansion

Multiple Access

- Femoral, axillary, carotid, apical and radial



Technical Specification

Add-ons

- Box or Head Neuro Enclosure, SIMulant Throumbus and ASIST KIT, SIMulant Blood, Radial Anatomy

Functional Data

- Fluid amount required - 4 L
- Controllable Flow Rate 2-8 L/min
- Heat mode - reaches 37 C, in circa 15 minutes
- Controllable Systemic
- Pressure 60/40 to 200/180 mmHg(dependent on anatomy)
- Controllable Heart Rate 40-120 BPM

Travel Friendly

- Professional case - SKB model
- Weight (all included) Case 1 - 26.1kg (57.5lb)
- Case 2 - 34.0 kg (75lb)

Dimensions Weight:

- Body 7.6kg (16.7lb) + Control 18.8 kg (41.4lb)
- Size Assembled: 1399.9 x 506.5 x 259.0 mm (55.1 x 20 x 10.2 in)
- Recommended table size: 180 x 50 cm (6.0 x 1.5 ft)

Contact us for more information