



SIM Core

Vascular Flow System

Simplified for travel, fit for training - SIM Core is designed to replicate aortic, thoracic and peripheral pathologies for the replication of endovascular procedures. While the system maintains an equally optimized tactile feedback delivered by Replicator PRO, it is also simplified in its design to be more quickly accessible and convenient to operators with custom configurations for EVAR, TEVAR, SHD, peripheral and more.

With full system set-up within 5-10 minutes, SIM Core ensures an easily repeatable and reliable resource for:

- Device development
- Pre-clinical trial training
- Demonstrations
- Events

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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



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.



Highly Portable

Built to support professionals anywhere with the ability to easily swap vascular modules for various cases.



Angiography Compatible

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

Features & Benefits

Key Benefits

Physiologically relevant system powered by a cyclic pump, built-in heater, and reservoir.

Adjustable heart rate with rapid pacing technology.

Full system set-up within 5-10 minutes, including vessel replacements

Swap out pre-configured thoracic, abdominal and visceral sections for a variety of case scenarios and patient-specific anatomies

Features

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

Vascular Platform that configures a variety of case scenarios for any goal:

SOPHISTICATED HEMODYNAMICS

- Pulsatile flow
- Adjustable heart rate
- Rapid pacing capability
- Built-in heater and reservoir

REFLEX Silicone Vasculature

- Realistic tactile feedback
- Easily replaceable and highly durable
- Configure with standard or diseased vessels
- Design from DICOM to 3D model within days
- Accommodate several levels of tortuosity and aneurysms sizes
- Multiple access point - up to 26F

Procedure Versatility

Enabling a Range of Interventional Procedures to configure a variety of case scenarios for any goal:

Modular

- Swap out pre-configured thoracic and abdominal sections.

3-Dimensional

- Realistic anatomical position and vascular tethering to enable realistic device behavior

Metal-free

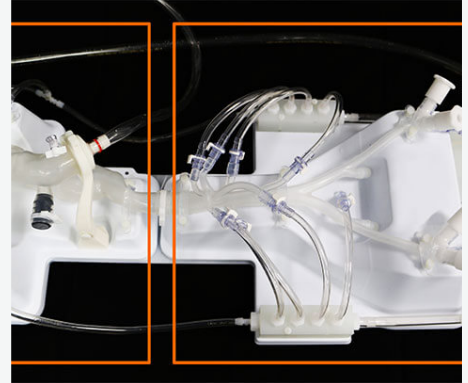
- Clear angiographic appearance

Flexible access

- Multiple vascular access options

Optional

- Ability to add peripheral vascular extension



Technical Specification

Functional data

- Fluid amount required - 3L-4L
- Controllable Flow Rate 20-100%
- Duty Cycle
- Heat mode - reaches 37 C,
- 15 minute heat-up
- Approximately 100-120 mmHg @ 100%
- Flow, dependent on anatomy
- Controllable Heart Rate 50-120 BPM
- Rapid Pacing

Packaging

- Travel Friendly professional case- SKB case
- Weight (all included) 24.2 kg(53.5 lbs)

Dimensions

- Weight: 9.3 kg (20.5 lbs)
- Size Assembled:1195.2 x 595.3 x 262.4 mm(47.1 x 23.4 x 10.3 in)
- Recommended table size:120 x 60 cm (4.0 x 2.0 ft)

Contact us for more information