SUN NUCLEAR
A MIRION MEDICAL COMPANY

Peripheral Vascular Doppler Flow Phantom

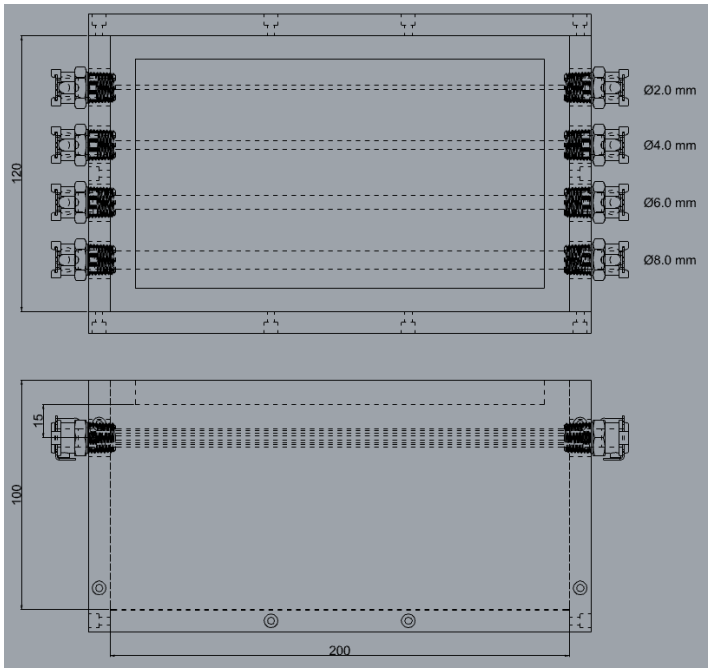
Perform image quality tests with CIRS Model 769, Doppler Flow Pump:

- Sensitivity
- Flow Velocity
- Maximum Penetration
- Flow Location

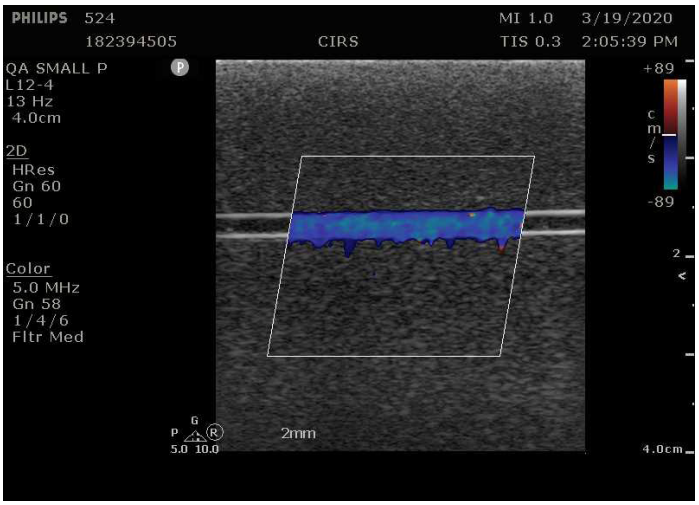
Designed for Superficial Vascular Simulation

The Model ATS 524, Peripheral Vascular Doppler Flow Phantom, is a rubber-based tissue mimicking phantom designed for simulating superficial vasculature.The phantom contains four flow channels with constant diameter channels of 2, 4, 6 and 8 mm. The simulated vessels are located 15 mm below the scan surface. Built-in scanning wells are provided to permit the use of water or a low viscosity gel as acoustic coupling agents.

Phantom Diagram



Phantom In Use



Specifications

Dimensions	22 cm x 14cm x 10 cm (9" x 8" x 4")
Weight	13 lbs (6.1 kg)
Housing Material	PVC
Scan Surface Dimensions	17.5 cm x 9.8 cm
Maximum Fluid Pressure	15 psi (1.05 Kg/cm)
Connectors*	Quick Disconnect
Tissue-Mimicking Materal	Urethane Rubber
Freezing point	< -40° C
Melting point	Above 100° C
Speed of Sound	1450 m/s ±1.0% at 23°
Attenuation	0.5 dB/cm/MHz ± 10%
Flow Channels	Circular (4 total), Diameters: 2, 4, 6, & 8 mm

**Mating quick disconnect fittings are provided with the 769 Doppler Flow Pump. If using the phantom with a different pump system, the mating connectors may be ordered separately.*

Items Included with CIRS Model ATS524

Quanity	Description
1	Peripheral Vascular Doppler Flow Phantom
1	User Guide
-	Certificate of Compliance

Must purchase CIRS Model 769, Doppler Flow Pump, separately.