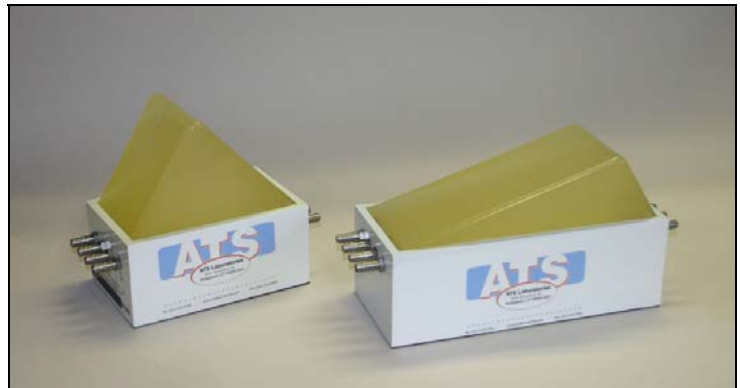




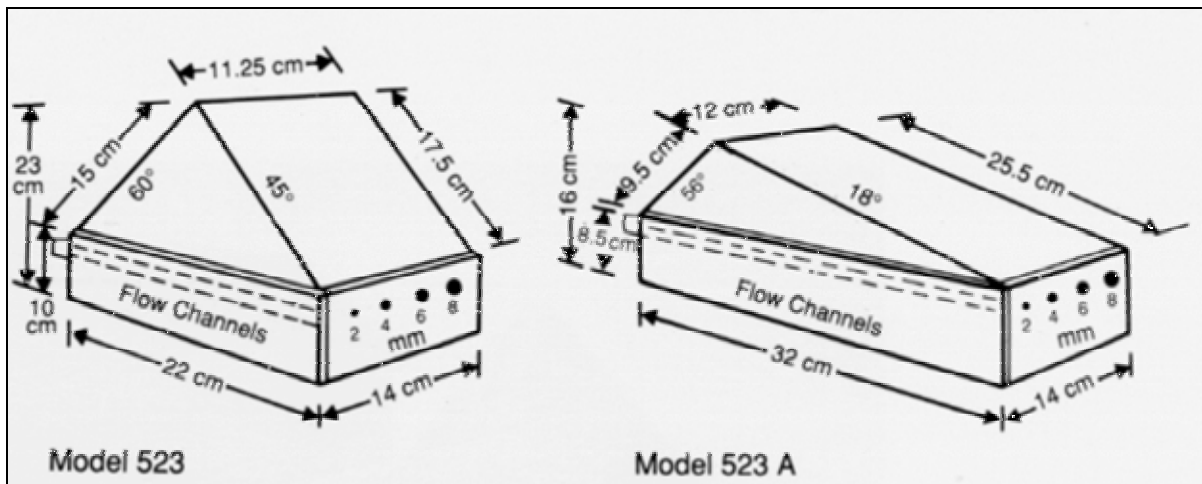
## Model 523 & 523A Cardiac Doppler Flow Phantom

- Sensitivity
- Flow Velocity
- Flow Location
- Penetration
- Image Uniformity



### Product Description

The Models 523 and 523A rubber based tissue mimicking Doppler flow phantoms contain four flow channels of various diameters (normally 2, 4, 6, and 8mm diameter) simulating the deep vasculature of the cardiac and abdominal vessels. Two fixed-angled scan surfaces maintain a constant angle between the sound beam and the ATS Model 707 Doppler Test Fluid flowing through the phantom. The Model 523 and Model 523A differ only in the angle of the fixed scanning surface. The scan surfaces of the Model 523 are angled at 45° and 60°, permitting continuous scanning at depths ranging from 5 to 18 cm. In the Model 523A the scan surfaces are angled at 18° and 56°, permitting continuous scanning at depths ranging from 3 to 17 cm. **Lifetime warranty**



## Specifications

### Model 523

Overall Dimensions: 22 x 14 x 10 cm  
Scan Surfaces: 2  
Scan Surface Dimensions: 17.5x11.25cm @ 45°  
Scan Surface Dimensions: 15x11.25cm @ 60°  
Maximum Fluid Pressure: 15 psi (1.05 Kg/cm)  
Connectors: Stainless Steel Hose barb  
Weight: 6.1 Kg  
Tissue Mimicking Material: Urethane rubber  
Freezing Point: <-40°C  
Melting Point: >100°C  
Attenuation Coefficient: 0.5 dB/cm/MHz ± 5.0%  
Speed of Sound: 1450 m/s ±1.0% at 23°

Type: Circular  
Number of Channels: 4  
Diameters: 2, 4, 6, 8 mm  
Scan Surface Depths: 5.0-16.0cm @ 45°  
Scan Surface Depths: 5.0-18.0cm @ 60°

### General

### Model 523A

Overall Dimensions: 32 x 14 x 8.5cm  
Scan Surfaces: 2  
Scan Surface Dimensions: 25.5x12.0cm @ 18°  
Scan Surface Dimensions: 9.5x12.0cm @ 56°  
Maximum Fluid Pressure: 15 psi (1.05 Kg/cm)  
Connectors: Stainless Steel Hose barb  
Weight: 6.9 Kg  
Tissue Mimicking Material: Urethane rubber  
Freezing Point: <-40°C  
Melting Point: >100°C  
Attenuation Coefficient: 0.5 dB/cm/MHz ± 5.0%  
Speed of Sound: 1450 m/s ±1.0% at 23°

### Flow Channels

Type: Circular  
Number of Channels: 4  
Diameters: 2, 4, 6, 8 mm  
Scan Surface Depths: 3.0-11.0cm @ 18°  
Scan Surface Depths: 4.0-17.0cm @ 56°

**ATS Laboratories, Incorporated, 404 Knowlton St., Bridgeport, CT USA Tel: 203-579-2700 Fax: 203-333-2681**

**Email: [atslaboratories@yahoo.com](mailto:atslaboratories@yahoo.com) Webpage: [atslaboratories.com](http://atslaboratories.com)**