

- Provides long-term preservation of vessels >60 μm
- Built-in heating
- System includes integrated microscope with camera for continuous vessel monitoring
- Comes with the MyoVIEW software to facilitate vessel monitoring during culture
- Possible to measure lumen size, wall thickness, cross-sectional area and other vascular parameters during culture
- Culture chamber easy to sterilize



The Culture Myograph System - 202CM is designed to provide long-term functional preservation of small blood vessels by maintaining them under controlled culture conditions of intravascular pressure and flow. By using a closed, sterile system and standard culture methodology, vessels can be studied for several days.

The system has an integrated DMT microscope (with a USB CCD camera) for continuous monitoring of the vessel during the culture period. The system contains a stage with built-in heating and two reservoirs that are pressurized by an external pressure unit to maintain a consistent intravascular pressure.

During culture, all possible parameters such as lumen diameter, wall thickness and cross sectional area can be measured and recorded using our MyoVIEW software. Addition of the optional FlowMeter 162FM to the system allows accurate flow measurement during culture.

The design of the small chamber allows easy access for vessel cannulation. The cannula can easily be replaced, and the chamber cover allows appropriate viewing via its submerged centre. All parts of the chamber unit can be disassembled and sterilized by autoclaving. Two inlet/outlet ports are available for insertion of probes or super fusion of culture medium or buffer.

A 4-channel version (model 204CM) is also available.



CULTURE MYOGRAPH SYSTEM - 202CM

SPECIFICATIONS:

Vessel size	>60 µm
Chambers	One
Chambers volume	Max. 2 ml
Cannula ports	O.D. 1.2 mm
Super fusion ports	Built-in
Base window	10 mm diameter type II cover-slip
Chamber material	Acid-resistant stainless steel
Chamber cover	Removable with gasket and access port

CHAMBER STAGE:

Alignment	Two cannula holders
Adjustment	X, Y & Z
Flow	25 ml bottles for flow adjustment
Temperature range	Ambient temp - 50°C
Temperature control	Via PC software
Temperature probe	Included

MICROSCOPE STAND:

Camera	USB ½" B/W CCD
Objective	10x
Adjustment	X, Y & Z directions
Light source	Infrared LED
Voltage	100-240 VAC (auto) 50/60 Hz

PRESSURE REGULATOR

Temperature range	0-300 mmHg
Pressure source	Atmospheric pressure

HEAT CONTROLLER:

Temperature range	Max 50°C
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