

- The four chambers allow studies of four preparations simultaneously
- Ideal for work requiring a higher through-put such as cumulative concentration-response curves
- Built-in heating, electronic valves for simultaneous rapid removal of buffer, analog output of force
- Data directly piped into Labchart Pro via USB cable. No Powerlab box needed



The 4-channel Tissue Bath System - 720MO is a highly sophisticated, robust, easy-to-use research instrument for the in vitro study of larger blood vessels (>450  $\mu\text{m}$ ) or other tubular tissues.

Each single myograph unit, made of aluminium, has a round, centrally placed stainless steel chamber. The tissue supports are pins positioned in the chamber with one side attached to the force transducer and the other to a micropositioner.

Each unit has individually controlled gas inflow and suction. Heating and connections for vacuum and gassing are on the myograph interface, permitting the preparations in all four chambers to be kept under physiological conditions (37°C, and bubbled with a gas mixture of your choice). The interface also houses all the electronics and microprocessor for calibration, the circuitry for analog outputs, and a USB port for easy updates.

Following mounting and equilibration, passive length-tension relationships can be determined. During experiments the length is kept constant. Compounds can be added directly to the chamber, and the tissues contractility and reactivity are measured under isometric conditions.

This Tissue Bath System is highly suited for pharmacological investigations of tissue reactivity. Multiple 720MO units, especially in combination with the Automatic Buffer Filler System - 625FS, can be conveniently arranged side-by-side, making the 720MO an ideal system for work requiring a higher throughput, such as drug screening, concentration responses, or experiments where individual testing of e.g. larger diameter tubular tissues in separate baths is necessary.



# TISSUE BATH SYSTEM - 720MO

## CHAMBER:

Chamber volume (min)	2.0 ml
Chamber(s)	4
Chamber material	Acid resistant stainless steel
Vessel size	>450 $\mu$ m
Vessel normalization	Manually
Micrometer resolution	0.01 mm
Mounting type	Pins

## TEMPERATURE:

Range	15.0 to 50.0 $^{\circ}$ C
Resolution	0.1 $^{\circ}$ C
Stability	$\pm$ 0.2 $^{\circ}$ C
Heating	Yes

## TRANSDUCER:

Output reading	mN or g
Range	$\pm$ 200/ $\pm$ 400/ $\pm$ 800/ $\pm$ 1600 mN
Resolution	0.01 mN
Force calibration	Yes

## OUTPUT:

Data communication	USB 2.0
Analogue output channels	4
Analogue output range	$\pm$ 2.5 V

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