

- Retrograde perfusion of isolated hearts from small rodents
- Constant pressure and constant flow mode on same system
- Integration of highly precise flowmeter (optional)
- Direct streaming of data into LabChart Pro by ADInstruments
- Easy to maintain, easy to clean...



»UNIQUE COMPACT DESIGN & SMALL FOOTPRINT«

The MyoHEART System is a state-of-the-art Langendorff system used for isolated perfused heart studies from small rodents.

Using retrograde flow, the MyoHEART is a modern system that combines functionality and ease of use. Using cutting edge technology everything is combined in a compact unit where functions are operated and monitored on the touch-screen display.

The following packages are available to the MyoHEART system; ECG/Pacer Package, pH Package, pO₂ Package and LVP Package.

With built-in pressure transducers, pressure is easily monitored during experiments on constant flow mode. Under constant pressure, coronary flow may easily be measured with an added in-line flowmeter.

Depending on configuration the MyoHEART monitors aortic flow, ECG, pH (perfusion buffer), pO₂ level (perfusion buffer) and heart surface temperature. Controllable parameters are perfusion pressure, flow, temperature, reservoir temperature, BPM (pacer) and ISO-volumetric left ventricular pressure (LVP).

Record and display of all traces are easily done using LabChart by ADInstruments. Using the DMT Device Enabler the MyoHEART system streams data directly into LabChart.



MYOHEART LANGENDORFF SYSTEM - 900MH

SYSTEM

SPECIFICATIONS:

Heart chamber heating:	Built-in
Heart chamber temp. range:	20 - 50 °C
Heart chamber temp. resolution:	0.1 °C
Heart chamber temp. stability:	± 0.3 °C
Perfusion heating:	Built-in
Perfusion temp. range:	20 - 50 °C
Perfusion temp. resolution:	0.1 °C
Perfusion temp. stability:	± 0.2 °C
Peristaltic pump:	0 - 100 rpm
External IR temp. probe:	± 0.1 °C
Perfusion pressure range:	0 - 250 mmHg
Flow range:	0 - 100 ml/min

PACKAGES

PACER:

Output select:	Volt or Current
Bipolar or monopolar:	
Volt output range:	0 - 15 V (res. 0.01 V)
Current output range:	0 - 15 mA (res. 0.01 mA)
Stimuli pulse width:	0.1 - 1000 ms
Frequency:	0.1 - 20 Hz

ECG:

Wilson coupling up to 12 lead´s derivations.	
Gain range selectable:	from 100 - 1200

LVP:

LVP pressure transducer:	0 - 250 mmHg
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pH:

pH sensor measure range:	pH 5.5 - pH 8.5
Accuracy:	± 0.1 pH

pO₂:

O ₂ sensor measure range:	0 - 45 ppm
Accuracy:	± 0.5 %

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