

Perfusion Bath

Langendorff Preparation

Ref. LE 05.200

LF0839A



- Simple to Set-Up, no complex glassware
- Cheaper than many other alternatives
- Two reservoirs for perfusate: it allows to switch between two solutions
- It can work under constant flow or constant pressure conditions
- All components are removable: easy to clean
- Includes water heater and circulatory system
- Size: 22 cm (diam.)
32 cm (high)

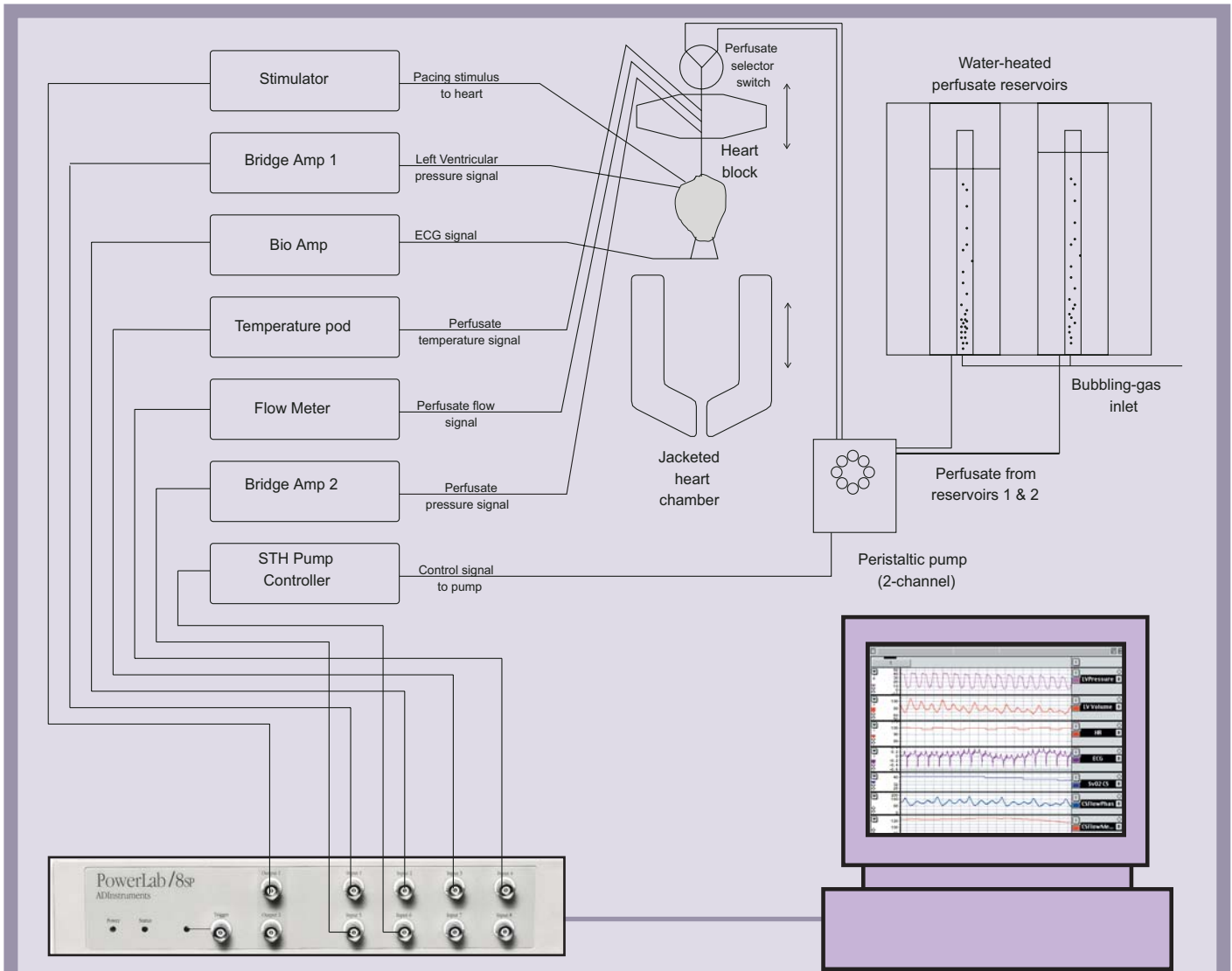
Constant flow can be maintained using a peristaltic pump. Maintaining constant pressure can require complex and often expensive glassware in order to achieve a hydrostatic head of pressure. The STH Pump Controller makes setting constant flow and pressure easy, and even allows the user to switch between the two situations within the same experiment. It is designed to work with an appropriate pump (such as the Gilson Minipuls 3), a pressure transducer connected to a Bridge Amplifier and a PowerLab data recorder with the Chart Software.



The Langendorff Preparation

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the Chart Software



Variable

Perfusate Temperature Signal

Perfusate Pressure Signal

Perfusate Flow signal

Left Ventricular Pressure signal (**)

ECG signal (**)

Requirements

Temperature Pod for Thermocouple (ML 312 or ML 306) and temperature probe
One recording channel

Bridge Amp (ML 110 or similar) and pressure transducer (TRA 021 or similar).
One recording channel

Derived from the Pump Controller (ML 175 STH).
One recording channel

Bridge Amp (ML 110 or similar), pressure transducer and Balloon or Millar microcatheter (with Bridge Amp adapter)
Three recording channels (pressure, dp/dt and cardiac rhythm)

Bio Amp (ML 136 with MLA 1340 and clamp or needle electrodes).
One (two) recording channels (ECG and cardiac rhythm; this one can be also derived from the intraventricular pressure)

(**): optional