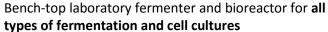


Lab Fermentor – Bioreactor LAMBDA MINIFOR

Reliable laboratory Peristaltic Pumps

Fraction collector and sampler OMNICOLL





- Smallest footprint ~ A4 sheet
- Autoclavable vessels: 0.3 l, 0.4 l, 1 l, 3 l and 7 l
- Control unit for measurement and regulation of:
 pH, agitation, pO₂, temperature, aeration and an additional selectable parameter 'X'
- Optional control: Redox potential, Conductivity, pCO₂, OD, smallest antifoam control, MINI-4-GAS automatic gas-mix, Chemostat, Exit gas / outgas measurement, , LUMO light control, Parallel runs, fermentation software



Reliable peristaltic pumps with **stable and reproducible flow rates** for long continuous experiments

- Stackable and extremely compact peristaltic pump saves laboratory bench-space
- Flow rate range: 0.01 to 60,000 ml/hour
- Flow rates remain constant for several weeks without the risk of tubing rupture in long term experiments
- Flow rate programming (up to 99 steps) and automatic switch-on and switch-off without using any timer e.g. programmed feed profile and external control options



Versatile fraction collector and sampler for chromatographic techniques and automatic liquid dispensing

- Single channel or simultaneous multi-channel fraction collection
- Types of recipients: Micro-well plates to large volume bottles / beakers / vessels / flasks
- Drop counter, TTL signal, free flow or pump controlled flow, cold room / cooling option
- Safe & sterile handling: Easily placed inside fume hood / laminar hood, clean room
- **Dimension:** 34 (W) x 30 (H) x 49 (D) cm



MASSFLOW gas flow controller and measurement

Powder dosing instrument DOSER and HI-DOSER

Polyvalent syringe pump VIT-FIT and VIT-FIT HP







MASSFLOW gas flow control and measurement units for precise measurement and regulation control of gas flows

- Regulation of flow rate by a microprocessor controlled proprietary needle valve
- Gas flow measurement independent of pressure and temperature
- Flow rate: **0 5 l/min** or **0 500 ml/min**
- Customize the gas station (2-gas mix, 3-gas mix, 4-gas mix) with individual MASSFLOW units

Powder dosing instrument for **safe, controlled and reproducible dosing or feeding** of crystalline or powdery substances (at **laboratory scale**)

- Fulfils the criteria of good laboratory practice and comply with modern safety requirements
- Dosing range: 50 mg/min to 50 g/min (DOSER) and 250 mg/min to 250 g/min (HI-DOSER)
- DOSER and HI-DOSER can get delivered with 0.2 L vessel, 1 L vessel or 3 L vessel
- Operation under controlled atmosphere (purge with N₂, Ar, ...)

Polyvalent syringe (infusion) pump with **extremely robust mechanics** for high precision and pulse-free flow

- New fixing mechanism allows to use virtually all available metal, glass & plastic syringes on the market
- Micro-liter up to over 150 ml syringes (without an adapter)
- Programmable infusion and filling
- Optimized for high pressure & high speed applications

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