

Lab Fermentor – Bioreactor LAMBDA MINIFOR



Bench-top laboratory fermenter and bioreactor for **all types of fermentation and cell cultures**

- **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 laboratory Peristaltic Pumps



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

Fraction collector and sampler OMNICOLL



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



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 DOSER and HI-DOSER



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

- Fulfills 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 pump VIT-FIT and VIT-FIT HP



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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