

Laboratory instruments



Integrator



Hiflow



VIT~FIT



Doser



Minifor



Omnicol

PRECIFLOW, MULTIFLOW and HiFLOW pumps were developed as the result of twenty years of laboratory experience and involved the systematic elimination of the imperfections found in other pumps on the market. The result is a practical, precise and reliable pump, which is the most compact in its class.

- flow rates from 0.1 to 9000 ml/hr, digital speed setting 1:1000
- new motor technology and extensive remote controls
- greatly extended tubing life with decreased pulsation, very economic in use
- low voltage plug-in power supply for maximum safety
- flow rate programming (up to 99 steps) can be switched on and off without using any timer
- access to reaction kinetics by using „PUMP-FLOW INTEGRATOR“

PUMP-FLOW INTEGRATOR will allow visualising how much liquid has been pumped in function of time in controlled processes.

Typical examples of application:

- control of pH during chemical reactions where the pH is controlled by addition of acid or base (hydrolysis of esters, amides, anhydrides etc.)
- control and quantification of metabolical activity of cells during fermentations and cell-cultures (by control of pH, rH, pO₂, pCO₂, conductivity or another parameter required)
- measurements of enzyme activities of numerous enzymes (esterases, acylases, lipases, proteases and others using pH stat)
- recording of foam formation (automatic addition of antifoam agent)
- recording of addition of reactifs during exothermic reactions with addition of reactif controlled by a thermostat
- recording of consumption of reactifs during titration
- making of gradient for gels, chromatography etc.

OMNICOLL – a new concept in fraction collection

- collects fractions in any racks of your choice
- collects unlimited number of fractions in single or multiple fractions
- no danger of spilling – the complete collector is placed above tubes
- unlimited number of programmes
- extremely easy programming of rack and tube position with a simple pencil
- fractionation according to time (0.1 – 9999 min) or volume (0.01 – 500 ml)
- sampling with pause and line washing, multicolumn attachment (up to 18)
- can be placed in a cold bath or any other thermo-stabilized container
- good quality for a fair price (solvent resistant)
- tubes easily accessible from all sides

VIT-FIT SYRINGE PUMP – good value for low price

New syringe fixing system Vit-Fit allows almost any syringe (from micro syringes to large volume syringes) to be used without the use of an adapter. The handling of the syringes is made very easy. The syringe is tightly held in both directions – infusion and filling. Very high flow rates and force (80 and 300N), programmable (99 steps both infusion and filling), two valves outputs, remote controls, RS 485.

LAMBDA DOSER – unique pump for free-flowing solid substances

Allows the automatic or continuous addition of solids, powders and crystalline substances.

LAMBDA MINIFOR – through innovation to quality fermentor at half-costs

- new whole glass vessels with threaded necks and fittings
- Vibromixer with silicon membrane instead of expensive magnetic coupling
- new IR radiator with gold reflector for gentle and precise heating
- cover made from Hi-Tech plastics instead of expensive stainless steel
- extremely compact but handy with full access from all sides
- PC control compatible