LAMBDA OMNICOLL Fraction Collector and Auto-Sampler

FEATURES OF OMNICOLL

LAMBDA OMNICOLL fraction collector and auto-sampler allows almost unlimited flexibility – opens new possibilities in chromatography and multiple stream sampling. It can be used for all kinds of chromatographic techniques such as normal or low pressure chromatography (LPLC), medium pressure chromatography (MPLC), fast protein liquid chromatography (FPLC) or high pressure or high performance liquid chromatography (HPLC) and during cell culture, fermentations, chemical reactions, etc.

The OMNICOLL can handle nearly all kinds of sampling tubes and laboratory sampling racks available on the market. Therefore, no special sampling tubes or racks are needed to collect the fractions.

Safe handling (GMP/GLP)
- Spill protected
- Resistant to solvents
- Use under sterile conditions

Unlimited dimension
- Micro titre plates, larger volume bottles, beakers, flasks, etc.
- Unlimited number of fraction collection

Multi-stream collection
- Single stream
- Simultaneous multi-stream fractions of up to 20

Highly flexible control
- Volume / time / drop count / external signal controlled fraction collection
- Easy to program and handle
SINGLE STREAM FRACTION COLLECTION

- Free flowing stream
- Peristaltic pump controlled fraction collection (LAMBDA peristaltic pump or other pumps)
- Drop counter
- Any tube rack or recipients according to your choice (96-well plates, 24-well plates,... micro tubes, Eppendorf tubes, test tubes, beakers, bottles, flasks, etc.)
- Fraction collection in lines, row or meander-like (Zig-Zac)
- Pauses can be programmed between fractions (from 0.1 to 999.9 min and 1 to 9999 min)
- Remote control: TTL / external signal / RS-232
- Highly safe for user with low voltage current (9 V / 12 W)

Watch different fraction collection modes of LAMBDA OMNICOLL Fraction Collector and Sampler
MULTI-CHANNEL FRACTION COLLECTION

Multi-channel assembly is available from 2 up to 20 simultaneous streams based on the project requirements. OMNICOLL's customizable fraction collection assembly is not outperformed by any other fraction collector on the market.

- 20 stream (2 x 10) configuration
- 12 (1 x 12) stream configuration
- 2 stream configuration
- 6 stream configuration
- 4 stream configuration

- In case of pilot plants or industrial chromatographic application, bottom support plate can be removed to have any recipient, even very large bottles or containers for large volume fractions
- Special bottom support plate with funnels fitted with tubes, could also be used, for example, in collecting 50 litre fractions
- Excellent choice for field applications, as it can be operated with battery
- Highest flexibility of usage in almost any application
The modular construction of the LAMBDA OMNICOLL fraction collector-sampler allows coupling of several tube racks/recipients lower support units together to increase the number of samples collected by the fraction collector and sampler.

Virtually any number of such capacity extensions can be added.

Extended 30 mm tube rack capacity: 3 times (= 288 fractions)
Extended capacity of 250 ml bottles: 2 times (= 72 fractions)
Extended 15 mm tube rack capacity: 4 times (= 960 fractions)

Virtually unlimited number of fractions with 'n' number of support extension according to the available laboratory bench space
TECHNICAL SPECIFICATION

Type: LAMBDA OMNICOLL – microprocessor-controlled programmable fraction collector – sampler

Collection mode: Linear (line), meander (zigzag) or row collection

Normal modus:
   Time: 0.1 to 999.9 minutes (16.67 hours) in 0.1 min steps or 1 to 9999 minutes (166.7 hours) in 1 min steps
   Volume: 0.01 to 500 ml or 0.6 to 30 litres (external counts using LAMBDA peristaltic pump)

High modus: same as Normal modus, but with a pause between fractions (from 0.1 to 999.9 minutes or 1 to 9999 minutes)

Remote control:
   Normal modus: Collector takes a single fraction after an external voltage pulse of 3-12 V (or 12-30 V with a 3300 ohm resistor)
   High modus: Collector takes a 1 to 999 fractions after a single external voltage pulse of 3-12 V (or 12-30 V with a 3300 ohm resistor)

Capacity:
   Any tube rack or container type with a surface smaller than 45x31cm
   Using supplied racks:
      360 tubes of 12-13 mm diameter
      240 tubes of 16 mm diameter
      160 tubes of 20 mm diameter
      96 tubes of 30 mm diameter
   The capacity can be increased many times by coupling several lower fraction collector parts together.

Non-volatile memory: storage of all settings

Interface: RS-232 (optional)

Power supply: 95–240 V/60–50 Hz AC plug-in power supply with DC 9V/12W output; possible field operation on 12 V accumulator

Dimensions: 34 (W) x 30 (H) x 49 (D) cm

Weight: 6.5 Kg

Safety: CE, meets IEC 1010/1 norm for laboratory instruments

Operation temperature: 0-40 °C

Operation humidity: 0-90% RH, not condensing

Remote control: 0-10 V; (option 0-20 or 4-20 mA)

Fuse: 1.5 A (on printed circuit board)

Guarantee: 2 years
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Only Sky is the Limit!