

FCA - 3130

Fraction Collector and Auto-Sampler



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Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► **Features:**

- 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.

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 tubEppendorf 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)

►► MULTI-CHANNEL FRACTION COLLECTION :

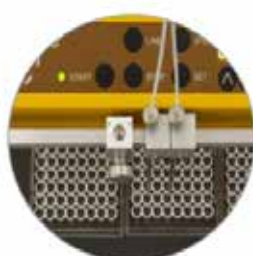
Multi-channel assembly is available from 2 up to 20 simultaneous streams based on the project requirements. customizable fraction collection assembly is not outperformed by any other fraction collector on the market.



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

►► INCREASE THE NUMBER OF FRACTIONS :

The modular construction of 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)

►► TECHNICAL SPECIFICATION

Type:	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 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)



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Counter



Optical Emission
Spectrophotometer



DSC/TGA



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Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



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Reader/Washer



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Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



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RTPCR



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system

Regulatory compliances



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