

# FC 203B & FC 204 Fraction Collectors

## Time, Drop, or Peak Collection to Suit Virtually Any LC Application



SPEC SHEET | FRACTION COLLECTOR

FRACTION COLLECTORS FC 203B & FC 204

### Features and Benefits

- Collect fractions by time, drop, or peak to suit all your LC applications
- Choose the compact FC 203B for small-capacity collection or the FC 204 for large volumes and capacities
- Accept a wide variety of collection vessels, including microplates, microvials, and tubes
- In peak mode, collectors monitor a detector signal and identify peaks using either an adaptive-slope algorithm or a specified millivolt threshold
- Up to 10 programmable time windows can be added for collecting only what you want, while discarding the column's void volume, peaks of no interest, and equilibration volumes
- Operate as stand-alone instruments with an easy-to-use keypad, or can be controlled through your PC via TRILUTION® LC Software
- 3-way diverter valve prevents contamination of collected fractions (standard on the FC 204, optional on the FC 203B)
- Contact closure inputs are available to remotely start, advance, or stop—compatible with most HPLC systems
- Multicolumn adapters for collecting up to 18 separate channels
- Compact size fits in most fume hoods

### Fraction collector

FC 203B



### Fraction collector

FC 204



## FC 203B & FC 204 FRACTION COLLECTORS

3-way Valves	<b>FC 203B:</b> 3-port, PTFE, 67 $\mu$ L internal volume, 3.5 $\mu$ L dead volume from common port to the normally closed port, up to 20 mL/min with large-bore needle <b>FC 204:</b> 3-port, PTFE, 114 $\mu$ L internal volume, 6 $\mu$ L dead volume from common port to the normally closed port, up to 200 mL/min with large-bore needle
Communication Interface	GSIOC; Inputs for start/advance and end/home; output for control of peripheral devices
Data Acquisition	An input channel for analog-to-digital conversion; digital data is transmitted on the GSIOC
Detector Input	$\pm$ 100 mV full scale
Drop Counting	Up to 9,999 drops per fraction <b>Maximum rate:</b> 20 drops/sec
Event Marker	100 ms pulse
Front Panel	Five commands, HELP, YES, NO, and 0-9 numeric hard keys; four soft keys
Display Panel	Two-line, 24-character display on backlit LCD
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Maximum Collection Volume/Tube	<b>FC 203B:</b> 20 mL scintillation vials (28 x 60 mm) with optional Code 24 rack <b>FC 204:</b> 32 mL tubes (18 x 180 mm) or 25 mL tubes (18 x 50 mm)
Maximum Fractions	<b>FC 203B:</b> 128 tubes (12 x 75 mm) with optional Code 14 rack <b>FC 204:</b> Up to 768 when configured with eight 96-well, 2-mL Whatman/Polyfiltronics microplates on a Code 17 rack
Multiple-Column Collection	Simultaneous collection from up to 8 (FC 203B) or up to 18 (FC 204) columns with installation of optional multiple column adaptor(s)
Multiple-Cycle Operation	Repetitive collection of each sample into same set of tubes or collection of each sample into different set of tubes
Number of Racks	<b>FC 203B:</b> Holds one rack <b>FC 204:</b> Holds one Code 16 or Code 16D rack, one Code 17 rack or up to four Code 20-Series racks (all racks must be the same code)
Operating Modes	Drop, Manual, Peak + Drop, Peak + Time, Time
Peak Detection	Adaptive-slope algorithm that applies user-specified parameters to accommodate drifting baselines, negative, and asymmetrical peaks, or absolute threshold level that collects all peaks above specified mV value <b>Peak parameters:</b> peak height or level, in mV; peak width at half-height, in minutes <b>Minimum peak height for fractionation:</b> 0.1 mV full scale <b>Detector-collector delay:</b> 0.01 minute increments
Power Requirements	<b>Frequency:</b> 50-60 Hz <b>Voltage:</b> 100-120V or 220-240V; main voltage fluctuations not to exceed $\pm$ 10% of the nominal voltage <b>Current rating:</b> 0.5A for 100-120V, or 0.25A for 220-240V
Programmable Time Units	From 0.01 to 99.99 minutes per tube with a 0.01 minute limit of resolution
Software	Via TRILUTION® LC Software
Time-Based Programming	Up to 10 collection windows and 10 drain steps in any mode
Tube Change Time	100-250 ms (FC 203B) or 100-720 ms (FC 204) center to center, depending on rack type
Zero Power Memory	Maintains memory for a minimum of five years from date of shipment
Dimensions (W x D x H)	<b>FC 203B:</b> 32.4 x 29.2 x 26.7 cm (12.8 x 11.5 x 10.5 in.) <b>FC 204:</b> 47.9 x 46.4 x 33.0 cm (18.9 x 18.3 x 13.0 in.)
Weight	<b>FC 203B:</b> 5 kg (11 lbs.) <b>FC 204:</b> 10.9 kg (24 lbs.)



**FC203B (PN: 171011)**

**FC 204 (PN: 171041)**