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Gilson FC 204 Fraction Collector Technical Specifications

3-way Valves	FC 203B/204: 3-port, PTFE, 67 µL internal volume, 3.5 µL dead volume from common port to the normally closed port, up to 20 mL/min with standard- or large-bore needleFC 204: 3-port, PTFE, 114 µL internal volume, 6 µL dead volume from common port to the normally closed port, up to 20 mL/min with standard- or 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	±100 mV full scale
Drop Counting	Up to 9,999 drops per fractionMaximum rate: 20 drops/sec
Event Marker	100 ms pulse
Front Panel	Five command, 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 certif ication standards; UL and CE certif ied
Maximum Collection Volume/Tube	FC 203B: 20 mL (28 x 60 mm) scintillation vials with optional Code 24 rackFC 204: 32 mL (18 x 180 mm) tubes or 25 mL (18 x 150 mm) tubes
Maximum Fractions	FC 203B: 128 12 x 75 mm tubes with optional Code 14 rackFC 204: Up to 768 when conf igured with eight 96-well, 2-mL Whatman/Polyf iltronics 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 tubes3-port, PTFE, 114 mL internal volume, 6 µL dead volume from the common port to the normally closed port, up to 200 mL/min with large-bore needle
Number of Racks	FC 203B: Holds one rackFC 204: Holds one Code 16 or Code 16D rack, one Code 17 rack or up 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-specif ied parameters to accommodate drifting baselines, negative and asymmetrical peaks, or absolute threshold level that collects all peaks above specif ied mV valuePeak parameters: peak height or level, in mV; peak width at half-height in minutesMinimum peak height for fractionation: 0.1 mV full scaleDetector-collector delay: 0.01 minute increments
Power Requirements	Frequency: 50–60 HzVoltage: 100–120 or 220–240V; mains voltage f luctuations not to exceed ±10% of the nominal voltageCurrent rating: 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 Gilson UniPoint System Sof tware
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 f ive years from date of shipment
Dimensions (w x d x h)	FC 203B: 32.4 x 29.2 x 26.7 cm (12.8 x 11.5 x 10.5 in.)FC 204: 47.9 x 46.4 x 33 cm (18.9 x 18.3 x 13 in.)

Weight FC 203B: 5 kg (11 lbs.)FC 204: 10.9 kg (24 lbs.)

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

- 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 UniPoint™ System 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

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