

<i>Technical Specification</i>	<i>Definition</i>
3-way valve	Three-port, PTFE, 67 μ L internal volume, 3.5 μ L dead volume from the common port to the normally closed port, up to 20 mL/minute with standard or large bore needle, up to 20 psi (1.4 bar)
Contact control	Contact closure inputs for start/advance and end/home Event mark output One programmable 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
Display	Two lines of 24 alphanumeric characters; backlit LCD
Drop counting	Up to 9999 drops per fraction. Maximum rate: 20 drops per second
Environmental conditions	Indoor use Altitude: up to 2000 m Temperature range: 5 $^{\circ}$ -40 $^{\circ}$ C Air pressure: 75-105 kPa Pollution degree: 1 or 2, in accordance with IEC 66 Humidity: Maximum relative humidity 80% for temperatures up to 31 $^{\circ}$ C, decreasing linearly to 50% relative humidity at 40 $^{\circ}$ C
Event marker	100 ms pulse (contact closure)
Front panel	Five command hard keys, HELP, YES, and NO hard keys, 0-9 numeric hard keys, and four soft keys
Manufacturing standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Maximum collection volume/tube	20 mL (28 x 60 mm scintillation vials with optional Code 24 rack)
Maximum fractions	128 (12 x 75 mm tubes with optional Code 14 rack)

Multi-cycle operation	Repetitive collection of each sample into same set of tubes or collection each sample into different set of tubes
Multiple column collection	Simultaneous collection from up to eight columns with installation of optional multiple column adapter
Number of racks	Holds one rack, see <i>Appendix A</i> for available racks
Operating modes	Time, drop, peak + time, peak + drop, and manual
Peak detection	Adaptive slope algorithm that applies user-specified parameters to accommodate drifting baselines, negative peaks, and asymmetrical peaks or absolute threshold level that collects all peaks above specified millivolt value Peak parameters: peak height or level, in mV, and peak width at half-height, in minutes Minimum peak height for fractionation: 0.1 mV full scale Detector-collector delay: 0.01 minute increments
Physical space requirement	32.4 x 29.2 x 26.7 cm (12.75 x 11.5 x 10.5 in.)
Power requirements	Frequency: 50 to 60 Hz Voltage: 100–120 V or 220–240V, mains voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage Current rating: 0.5A for 100–120V or 0.25A for 220–240V
Programmable time units (min.)	From 0.01 to 99.99 minutes per tube, with 0.01 minute limit of resolution
Software control	Via Gilson Serial Input/Output Channel (GSIOC) or by contact closure
Time based programming	Up to ten collection windows and ten drain steps in any mode
Tube change time	100–250 ms, center-to-center, depending on rack type
Weight	5 kg (11 lbs.)
Zero-power memory	Maintains memory for a minimum of five years from date of shipment