

<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/min. with large bore needle or Three-port, PTFE, 114 μ L internal volume, 6 μ L dead volume from the common port to the normally closed port, up to 200 mL/min. with large bore needle
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	<p>Safety certification:</p> <ul style="list-style-type: none"> • UL 3101-1 • CSA C22.2 –No. 1010.1-92 • EN 61010-1 <p>EMC certification:</p> <ul style="list-style-type: none"> • EN 61326 • EN 61000-3-2 1995 • EN 61000-3-3 1995 • FCC Part 15
Maximum collection volume/tube	32 mL (18 x 180 mm tube) or 25 mL (18 x 150 mm tube)
Maximum fractions	Up to 768 fractions when configured with eight 96-well, 2 mL Whatman/Polyfiltronics microplates on a Code 17 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 18 columns with installation of optional multiple column adapter(s)
Number of racks	One Code 16 or 16D rack, one Code 17 rack, or up to four Code 20-Series racks (all racks must be same code)
Operating modes	Time, drop, peak + time, peak + drop, and manual
Peak detection	<p>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</p> <p>Peak parameters: peak height or level, in mV, and peak width at half-height, in minutes</p> <p>Minimum peak height for fractionation: 0.1 mV full scale</p> <p>Detector-collector delay: 0.01 minute increments</p>
Physical space requirement	47.9 x 46.4 x 33.0 cm (18.9 x 18.3 x 13.0 in.)

Power requirements	Frequency: 50 to 60 Hz Voltage: 100–120V 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	100–720 ms, center-to-center, depending on rack type
Weight	10.9 kg (24 lbs.)
Zero-power memory	Maintains memory for a minimum of five years from date of shipment