

Isco 3710C Compact Portable Composite Sampler

Ease of use in single-bottle sampling

The 3710C Compact Sampler is ideal for general purpose or toxic pollutant composite sampling. It collects composite samples—based on time or flow intervals—in a 2½ gallon glass or polyethylene bottle. Up to 24 sampling stop and resume times can be preset for unattended, automatic sampling.

Accurate, repeatable sample delivery

The exclusive LD-90 Liquid Presence Detector and patented* Isco pump revolution counting system deliver accurate, repeatable sample volumes time after time. This precision volume delivery system automatically compensates for changes in head height, and the non-contacting LD-90 is unaffected by conductivity, viscosity, temperature, or effluent composition. The system also provides a preconditioning rinse of the suction line to eliminate sample contamination.



The 3710C's field-proven peristaltic pump assures long life and sample line velocities within EPA recommendations.



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User-friendly programming for all applications

The Isco 3710C Compact Sampler offers you basic and extended programming modes. This provides you with the versatility to easily program your sampler for:

- Uniform time intervals
- Non-uniform time intervals
- Flow-paced sampling with or without time delay

Setup and programming is a snap. Simply choose the options you need from the selections displayed on the two-line, backlit LCD.

Superior sample preservation

The sampler's 15 lb. ice capacity and thermal resistance of R-11 assure effective sample cooling. A thick, one-inch foam insulated base keeps the unit more rigid, and less affected by ambient temperatures.

*Patent #4,415,011

Isco 3710C Compact Portable Composite Sampler Specifications

Contact the factory or your Isco representative for additional specifications.

Sampler			Controller		
Height	27¾ in.	70.5 cm	Weight	11 lbs.	5.9 kg
Diameter	17¾ in.	45.1 cm	Dimensions	10 x 12.5 x 10 in.	26 x 32 x 25 cm
Weight (dry)	25 lbs.	11.3 kg	Operational Temperature	32° to 120°F	0° to 49°C
Sampler Bottle Configurations	2½ gallon polyethylene or 2½ gallon glass container		Enclosure Rating	NEMA 4X, 6	IP67
Ice Capacity <i>(¾" x ¾" x ¼") approx. cube size</i>			Program Memory	Non-volatile ROM	
1 - 2½ gallon polyethylene bottle	12 lbs.	5.4 kg	Flow Meter	5 to 15 volt DC pulse or 25 millisecond isolated contact closure.	
1 - 2½ gallon glass bottle	15 lbs.	6.8 kg	Signal Requirements	Up to 200 samples. <i>(Fail-safe float shutoff.)</i>	
Sample Cooling Capacity <i>(With amount of ice specified above, container full of 65°F water, and an ambient temperature of 75°F.)</i>	1 - 2½ gallon polyethylene bottle: 43°F (6°C) 1 - 2½ gallon glass bottle: 39°F (4°C) <i>(Average thermal resistance factor of R-11)</i>		Number of Composite Samples to Shutoff	Up to 200 samples. <i>(Fail-safe float shutoff.)</i>	
Power Requirements	12 volts DC. <i>(Supplied by battery or AC power converter.)</i>		Real Time Clock Accuracy	1 minute per month, typical	
Pump			Software		
Intake Purge	Adjustable air purge before and after each sample.		Sample Frequency Selection	1 minute to 99 hours 59 minutes, in 1 minute increments Non-uniform times in minutes or clock times 1 to 9,999 flow pulses	
Tubing Life Indicator	Provides a warning to change pump tubing.		Sampling Modes	Uniform time, non-uniform time, flow. (Flow mode is controlled by external flow meter pulses.)	
Intake Suction Tubing Length	3 to 99 ft.	1 to 30 m	Programmable Sample Volumes	10 to 9,990 ml in 1 ml increments	
Material	Vinyl or Teflon® lined		Sample Retries	If no sample is detected, up to 3 attempts; user selectable	
Inside Dimension	¾ in. or ¼ in.	1 cm or 0.6 cm	Rinse Cycles	Automatic rinsing of suction line up to 3 rinses for each sample collection	
Pump Tubing Life	Recommended 500,000 pump counts		Program Storage	3 sampling programs	
Maximum Suction Lift	26 ft.	7.9 m	Sampling Stop/Resume	Up to 24 real time/date sample stop/resume commands	
Typical Repeatability	±10 ml		Controller Diagnostics	Tests for RAM, ROM, pump display, and distributor	
Typical Line Transport Velocity at head height of:					
3 ft. (0.9 m)	2.9 ft./s	0.88 m/s			
10 ft. (3.1 m)	2.5 ft./s	0.76 m/s			
15 ft. (4.6 m)	1.9 ft./s	0.58 m/s			
Liquid Presence Detector	Non-wetted, nonconductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.				

Ordering Information

Suction line and strainer not included; order separately. Contact the factory or your Isco representative for complete ordering information.

Description	Part Number
3710C Portable Composite Sampler with:	
1 - 2½ gallon round polyethylene bottle	68-3710-012
1 - 2½ gallon round glass bottle	68-3710-013
Accessory package	68-3710-014
Suction line, lead-acid battery, wall charger	



Isco, Inc.
 4700 Superior St.
 Lincoln, NE 68504 USA
 Phone: (402) 464-0231
 USA & Canada: (800) 228-4373
 Fax: (402) 465-3022
 E-Mail: info@isco.com