

# Isco 3710 Portable Composite Sampler

## ***Ease of use in single-bottle sampling***

The 3710 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, or a 4 gallon polyethylene bottle. Up to 24 sampling stop and resume times can be preset for unattended, automatic sampling.

## ***Accurate, repeatable sample delivery***

The exclusive LD90 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 LD90 is unaffected by conductivity, viscosity, temperature, or effluent composition. The system also provides a preconditioning rinse of the suction line to eliminate sample contamination.



*Thick, rigid, foamed-in-place insulation helps keep samples cool under tough conditions.*



*Isco 3710 Composite Sampler*

## ***User friendly programming for all applications***

The Isco 3710 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***

With a thermal resistance of R-11, you can be assured of maximum effectiveness for cooling samples. A thick, one-inch foam insulated base keeps the unit more rigid, and less affected by ambient temperatures.

\*Patent #4,415,011

# Isco 3710 Portable Composite Sampler Specifications

Contact the factory or your Isco representative for additional specifications.

Sampler			Controller		
Height	28¾ in.	73.3 cm	Weight	11 lbs.	5.9 kg
Diameter	19¼ in.	48.9 cm	Dimensions	10 x 12.5 x 10 in.	26 x 32 x 25 cm
Weight (dry)	32 lbs.	14.5 kg	Operational Temperature	32° to 120°F	0° to 49°C
Sampler Base Capacity	2½ or 4 gallon polyethylene or 2½ gallon glass container.		Enclosure Rating	NEMA 4X, 6	IP67
Cooling Capacity <i>(with 20 lbs. of ice and 4 gal. container full of 65°F water)</i>	After 24 hours: 32°F (18°C) below ambient After 48 hours: 25°F (14°C) below ambient <i>(Standard thermal resistance factor of R-11)</i>		Program Memory	Non-volatile ROM	
Power Requirements	12 volts DC. <i>(Supplied by battery or AC power converter.)</i>		Flow Meter	5 to 15 volt DC pulse or 25 millisecond isolated contact closure.	
<b>Pump</b>			Signal Requirements	Up to 200 samples. <i>(Fail-safe float shutoff.)</i>	
Intake Purge	Adjustable air purge before and after each sample.		Number of Composite Samples to Shutoff	1 minute per month, typical	
Tubing Life Indicator	Provides a warning to change pump tubing.		<b>Software</b>		
Intake Suction Tubing			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	
Length	3 to 99 ft.	1 to 30 m	Sampling Modes	Uniform time, non-uniform time, flow. (Flow mode is controlled by external flow meter pulses.)	
Material	Vinyl or Teflon® lined		Programmable Sample Volumes	10 to 9,990 ml in 1 ml increments	
Inside Dimension	¾ in. or ¼ in.	1 cm or 0.6 cm	Sample Retries	If no sample is detected, up to 3 attempts; user selectable	
Pump Tubing Life	Typically 500,000 pump counts		Rinse Cycles	Automatic rinsing of suction line up to 3 rinses for each sample collection	
Maximum Suction Lift	26 ft.	7.9 m	Program Storage	3 sampling programs	
Typical Repeatability	±10 ml		Sampling Stop/Resume	Up to 24 real time/date sample stop/resume commands	
Typical Line Transport Velocity at head heights of:			Controller Diagnostics	Tests for RAM, ROM, pump display, and distributor	
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.				

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## Ordering Information

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

Description	Part Number
<b>3710 Portable Composite Sampler with:</b>	
1 - 2.5 gallon round polyethylene bottle	68-3710-008
1 - 2.5 gallon round glass bottle	68-3710-009
1 - 4 gallon round polyethylene bottle	68-3710-010



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