Isco 3700 Portable Full-size Sampler

Full-size performance and flexibility

he full-featured 3700 Sampler collects sequential or composite samples based on time, flow rate, or storm conditions.

Accurate, repeatable sample delivery

The exclusive LD90 Liquid Presence Detector and patented* pump revolution counting system deliver accurate, repeatable sample volumes time after time. This system gives you:

- ➤ Automatic compensation for changes in head heights
- ➤ Automatic suction line rinsing to eliminate sample cross contamination.

The LD90's non-contacting design is not affected by conductivity, viscosity, temperature, or liquid composition. There are no internal tubing connections, so cleaning and tubing replacement are fast and easy.

User friendly programming for all applications

Basic and extended programming modes provide you with the versatility for practically any collection scheme:

- ➤ Uniform time intervals
- ➤ Non-uniform time intervals
- ➤ Storm water runoff sampling
- ➤ Multiple bottle compositing
- ➤ Split sampling



Patent #4,415,011



Superior sample preservation

With thick, foamed-in-place insulation and an exclusive twin-wall design, your samples are protected. Even in hot or cold temperatures, the 3700 provides the maximum performance in thermal preservation for a portable sampler.

Interchangeable controller

The 3700 Sampler controller components are protected in a tough environmentally sealed enclosure. The enclosure meets NEMA 4X and 6 (IP67) requirements for submersible, watertight, dust-tight, and corrosion resistant operation. To give you added flexibility, the 3700 Series controllers are fully interchangeable for portable or refrigerated sampling.

■ The full-featured 3700 Sampler collects sequential or composite samples based on time, flow rate, or storm conditions.

Isco 3700 Portable Full-size Sampler Specifications

 $Contact \ the \ factory \ or \ your \ Is corepresentative \ for \ additional \ specifications.$

Sampler			Controller		
Height	25¼ in.	64.1 cm	Weight	11 lbs.	5.9 kg
Diameter	19% in.	50.5 cm	Dimensions	10 x 12.5 x 10 in.	26 x 32 x 25 cm
Weight (dry)	37 lbs.	16.8 kg	Operational Temperature	32° to 120°F	0° to 49°C
Bottle Configurations	24 - 1 liter polypropylene o	r 350 ml glass	Enclosure Rating	NEMA 4X. 6	IP67
	12 - 1 liter polyethylene or glass		Program Memory	Non-volatile ROM	
	4 - 1 gallon polyethylene or	9	Flow Meter	5 to 15 volt DC pulse or 25 millisecond isolated contact	
	1 - 2.5 gal polyethylene or glass 1 - 4 gallon polyethylene (with optional composite base)		Signal Requirements	closure.	
			Interface Port	8 pin connector; data output at 2400 baud in ASCII	
Cooling Capacity	40.044			RS-232 format with handshake.	
(with 20 lbs. of ice and 4 gal. container full of 65°F water)	After 24 hours: 32°F (18°C		Real Time Clock Accuracy	1 minute per month, typical	
Container full of 03 1 water)	After 48 hours: 25°F (14°C (Standard thermal resistance for		Software	1	
Power Requirements	12 volts DC. (Supplied by bat	<u> </u>			
	(copp cos	,	Sample Frequency Selection	1 minute to 99 hours 59 minutes, in 1 minute increments	
Pump				Non-uniform times in minut	tes or clock times
Intake Purge	Adjustable air purge before and after each sample.			1 to 9,999 flow pulses	
Tubing Life Indicator	Provides a warning to change pump tubing.		Sampling Modes Sample pacing	Uniform time, non-uniform time, flow, flow paced/time	
Intake Suction Tubing			Sample pacing	switched, STORM (time and f	
Length	3 to 99 ft.	1 to 30 m		sample collection.) Flow pacing is controlled by external	
Material	Vinyl or Teflon® lined			flow pulses.	
Inside Dimension	3⁄8 in. or 1⁄4 in.	1 cm or 0.6 cm	Multiplexing	Samples per bottle (1 to 50 with 1000 ml bottles; 1 to 17	
Pump Tubing Life	Recommended 500,000 pu	ımp counts		with 350 ml bottles), bottles per sample (1 to 24), multiple	
Maximum Suction Lift	26 ft.	7.9 m		bottle compositing.	
Typical Repeatability	±10 ml		Programmable	10 to 9,990 ml in 1 ml incre	ements
Typical Line			Sample Volumes		
Transport Velocity			Sample Retries		to 3 attempts; user selectable
at head heights of: 3 ft. (0.9 m)	2.9 ft./s	0.88 m/s	Rinse Cycles	Automatic rinsing of suction each sample collection	n line up to 3 rinses for
10 ft. (3.1 m)	2.5 ft./s	0.76 m/s	Program Storage	3 sampling programs	
15 ft. (4.6 m)	1.9 ft./s	0.58 m/s	Programming Modes	Basic, extended and STORM	
Liquid Presence Detector	iquid Presence Detector Non-wetted, nonconductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.		Sampling Stop/Resume	Up to 24 real time/date sample stop/resume commands.	
			Controller Diagnostics	Tests for RAM, ROM, pump display, and distributor	

Ordering Information

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

Description	Part Number	Description	Part Number
3700 Portable Sampler with:			
24 - 1 liter wedge shaped polypropylene bottles	68-3700-001	4 - 1 gallon round glass bottles	68-3700-011
24 - 350 ml round glass bottles	68-3700-002	1 - 2.5 gallon round polyethylene bottle	68-3700-014
12 - 1 liter round polyethylene bottles	68-3700-027	1 - 2.5 gallon round glass bottle	68-3700-015
12 - 1 liter round glass bottles	68-3700-017	1 - 4 gallon round polyethylene bottle	68-3700-016
4 - 1 gallon round polyethylene bottles	68-3700-036	(Includes composite base)	



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