### **Isco 3700 Portable Full-size Sampler**

## Full-size performance and flexibility

The 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
- ➤ Stormwater runoff sampling
- ➤ Multiple bottle compositing
- ➤ Split sampling





Proven performance and long-term dependability are hallmarks of Isco's 3700 Sampler.

#### 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.

### 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 or 350 ml glass 12 - 1 liter polyethylene or glass 4 - 1 gallon polyethylene or glass 1 - 2.5 gal polyethylene or glass 1 - 4 gallon polyethylene (with optional composite base)		Enclosure Rating	NEMA 4X, 6	IP67	
			Program Memory	Non-volatile ROM		
			Flow Meter	5 to 15 volt DC pulse or 25 millisecond isolated contact closure.		
			Signal Requirements			
			Interface Port	8 pin connector; data output at 2400 baud in ASCII		
Cooling Capacity	After 24 hours: 32°F (18°C) below ambient			RS-232 format with handshake.		
(with 20 lbs. of ice and 4 gal. container full of 65°F water)			Real Time Clock Accuracy	1 minute per month, typical		
container full of 05 1 water)	After 48 hours: 25°F (14°C) below ambient (Standard thermal resistance factor of R-11)		Software			
Power Requirements	12 volts DC. (Supplied by b	attery or AC power converter.)		50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Pump			Sample Frequency Selection	1 minute to 99 hours 59 minutes, in 1 minute increments		
•				Non-uniform times in minutes or clock times		
Intake Purge	Adjustable air purge before and after each sample.		l <del></del>	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			Sumple pacing		flow paced sampling during	
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% 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 p	oump 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 Sample Volumes	10 to 9,990 ml in 1 ml inc	rements	
Typical Line			<u> </u>	If no comple is detected a	un to 2 attampta, usar calcatable	
Transport Velocity at head heights of:			Sample Retries	·	up to 3 attempts; user selectable	
3 ft. (0.9 m)	2.9 ft./s	0.88 m/s	Rinse Cycles	Automatic rinsing of sucti each sample collection	on 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	Λ	
Liquid 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		

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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	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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