

# Isco 3700ZR Refrigerated Sampler for Hazardous Locations

## *Designed for safety—UL approved*

The new Isco 3700ZR is the only refrigerated sampler that is UL-approved for locations where atmospheres have been designated Class I, Division 1 (or comparable). The design is based on Isco's field-proven 3700 controller and stainless steel clad refrigerator. Most programming and control features offered on standard Isco 3700 models are available on the 3700ZR, as are sample container configurations using 1 or 2 bottles (glass or plastic).

The 3700 controller is mounted inside a purge enclosure. Special keypad actuators allow the user to program the sampler without compromising safety. A purge controller monitors and maintains an internal pressure greater than that of the surrounding atmosphere, preventing external gasses from entering the purge enclosure. If internal pressure should drop, power input is immediately cut off to prevent possible danger. Power is automatically resumed once normal operating conditions are restored.

The patented LD90 Liquid Presence Detector and pump revolution counter make sample collection accurate and repeatable.

## *Standard Features*

- ◆ UL-Approved for Class 1, Division 1 (gas groups C & D) locations
- ◆ Rust-resistant stainless steel exterior
- ◆ Exclusive LD90 Liquid Presence Detector and pump revolution counting system ensure accurate, repeatable sample volumes

## *Basic and Extended Programming Modes*

- ◆ Uniform time intervals
- ◆ Non-uniform time intervals
- ◆ Multiple bottle compositing
- ◆ Split sampling



## *Applications*

- ◆ Stationary sampling in industrial and municipal applications where Class 1, Division 1 safety rating is required

## Specifications

Isco 3700ZR Sampler				
Height	48.5 in	123 cm	Pump Maximum Lift Tubing Life	26 ft 500,000 counts (typical)
Width	39 in	99 cm		
Depth	30 in	76 cm		
Weight	230 lbs	104.3 kg	Purge Controller	Monitors air pressure and removes power if a pressure drop is detected
Exterior Materials	Stainless Steel, Epoxy-coated			
Power	120 VAC 60 HZ, installed by certified electrician		Purge Time	Safe operating pressure reached in 5 minutes after servicing sampler
Electrical Safety Rating	Class 1, Div. 1, Groups C&D. UL Certified			
Programming	24-position key pad, 2x20 character LCD		Plant Air Supply Pressure Exchange flow rate System supply port	Requires clean air or inert gas 80 – 120 psi 4 SCFM ¼-inch FPT fitting

## Ordering Information

Description	Part Number
Isco 3700ZR Sampler w/one 10-liter glass bottle	68-3740-038
Isco 3700ZR Sampler w/one 10-liter plastic bottle	68-3740-037
Isco 3700ZR Sampler w/two 10-liter glass bottles	68-3740-036
Isco 3700ZR Sampler w/two 10-liter plastic bottles	68-3740-035



*A locking service door provides easy access for pump tubing changes and other maintenance.*



Water is life. Protect it.

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