

Teledyne Isco 3700ZR Refrigerated Sampler for Hazardous Locations

Designed for safety—UL approved

The Teledyne 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 Teledyne 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 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

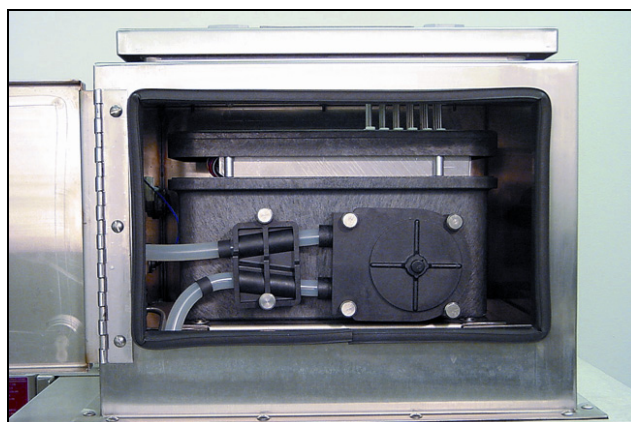
- ◆ Stationary sampling in industrial and municipal applications where Class 1, Division 1 safety rating is required

Specifications

Teledyne Isco 3700ZR Sampler				
Height	48.5 in	123 cm	Pump Maximum Lift Tubing Life	26 ft (7.9 m) 500,000 counts (typical)
Width	36 in	99 cm		
Depth	30 in	76 cm		
Weight	236 lbs	107 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, on a dedicated circuit 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	Requires clean compressed plant air to remove hazardous gases before system start-up and maintains safe pressure inside enclosure. NOTE: the 3700ZR is not intended for use with bottled gas. 80 – 120 psig. Source must be capable of supplying 15 SCFM at a minimum of 80 psig during initial 5 minute purge.

Ordering Information

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



Teledyne Isco

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