

# BLZZRD

## Multi-Bottle Portable Refrigerated Sampler



BLZZRD is a portable refrigerated sampler with active cooling from either AC or battery power. Its controller offers all advanced controls, interfaces, data logging, and remote communication features.

### *Advanced sampling and data logging with transportable, dual-power cooling*

Based on Teledyne ISCO's industry-leading 6712 controller, you get all the advanced control, data logging, and communication features of the 6712, with cooling from either AC or battery power.

Bottle options include 5- and 2.5 gallon composites as well as 4 x 1-gallon and 14 x 950 ml sequentials.

A 12V deep-cycle battery delivers 48 hours—or more—of refrigeration. The power-saving cooling system remains on standby until the first sample is drawn, and only then switches on to preserve the collected samples for pickup.

Available routines include: pause-and-resume for intermittent-discharge flow monitoring; sampler pacing by time, non-uniform time, flow or external event; and random interval sample collection.



*Optional mobility kit includes pneumatic tires for ease of transport over rough terrain, and a convenient battery platform.*

## **BLZZRD**

### Applications:

- Stormwater Runoff Compliance
- TMDL and Watershed monitoring
- Enforcement Monitoring
- Anywhere you need advanced sampling capability combined with data logging and communications for flow, rainfall, and water quality parameters—plus reliable, on-demand cooling

### Standard Features:

- Standard and extended programming keeps setup simple when you don't need advanced features
- NEMA 4x, 6 (IP67) controller enclosure is watertight and dustproof
- SDI-12 interface provides "plug and play" connection with multi-parameter water-quality sondes and other compatible devices
- Standard 512kB memory gives you great flexibility for logging environmental data
- NEMA 4X, 6 (IP67) controller enclosure
- Sample delivery at the EPA-recommended velocity of 2 ft/sec., even at head heights of 26 feet
- Patented pump revolution counter ensures accurate sample volumes—and tells you when tubing should be replaced

## BLZZRD Sampler

<b>Size (W x D x H):</b>	28 x 18.5 x 31.5 (71 x 47 x 80 cm)
<b>Weight:</b>	Dry, less battery—74 lbs (34 kg)
<b>Power requirements:</b>	12 Vdc, 6 Amps (supplied by external battery), OR 90 to 264 Vac, 47 to 63 Hz, 2 Amps
<b>Bottle configurations:</b>	5-gallon poly bottle 2.5-gallon glass bottle configuration 2.5-gallon poly bottle configuration 1-gallon poly bottle configuration (4 bottles) 950-mL poly bottle configuration (14 bottles)

## Pump

<b>Intake suction tubing:</b>	
-Length:	3 to 99 ft (1 to 30 m)
-Material:	Vinyl or Teflon
-Inside dimension:	3/8 in (1 cm)
<b>Pump tubing life:</b>	Typically 1,000,000 pump counts
<b>Maximum lift:</b>	28 ft (8.5 m)
<b>Typical repeatability:</b>	±5 mL or ±5% of the average volume in a set
<b>Typical line velocity at Head height of:</b>	
	3.0 ft./s @ 3 ft (0.91 m/s @ 0.9 m)
	2.9 ft./s @ 10 ft (0.87 m/s @ 3.1 m)
	2.7 ft./s @ 15 ft. (0.83 m/s @ 4.6 m)
<b>Liquid presence detector:</b>	Non-wetted, non-conductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights

## Controller

<b>Weight:</b>	13 lbs (5.9 kg)
<b>Size (HxWxD):</b>	10 x 12.5 x 10 in (26 x 32 x 25 cm)
<b>Operational temperature:</b>	32 ° to 120 °F (0 ° to 49 °C)
<b>Enclosure rating:</b>	NEMA 4X, 6 (IP67)
<b>Program memory:</b>	Non-volatile ROM
<b>Flow meter signal input:</b>	5 to 15 Vdc pulse or 25 millisecond isolated contact closure
<b>External trigger:</b>	Initiates sample collection and cooling from contact closure signal
<b>No. of programable composite samples:</b>	1 to 999 samples
<b>Clock accuracy:</b>	1 minute per month, typical, for real time clock

## Software

<b>Sample frequency:</b>	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
<b>Sampling modes:</b>	Uniform time, non-uniform time, flow, event. (Flow mode is controlled by external flow meter pulses.)
<b>Programmable sample volumes:</b>	10 to 9,990 mL in 1 mL increments
<b>Sample retries:</b>	If no sample is detected, up to 3 attempts; user selectable
<b>Rinse cycles:</b>	Automatic rinsing of suction line up to 3 rinses for each sample collection
<b>Program storage:</b>	5 sampling programs
<b>Sampling Stop/Resume:</b>	Up to 24 real time/date sample stop/resume commands
<b>Controller diagnostics:</b>	Tests for RAM, ROM, pump, display, and distributor

## Ordering Information

*Note: Bottle configuration, suction line, and strainer must be ordered separately. 12 Vdc operation requires external battery. Contact Teledyne ISCO or your local Representative for complete information.*

### BLZZRD Sampler

(115-230 Vac/12 Vdc) Includes controller, ..... 68-2964-000 distributor arm, instruction manual, pocket guide. Standard power cord.

5-gallon poly bottle .....	68-2960-023
2.5-gallon glass bottle configuration .....	68-2960-021
2.5-gallon poly bottle configuration .....	68-2960-024
1-gallon poly bottle configuration (4 bottles) .....	68-2960-025
950 mL poly bottle configuration (14 bottles) .....	68-2960-020
Mobility Kit .....	60-2974-048

## Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA  
Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091

teledyneisco.com



*Teledyne ISCO is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.*



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