

Technical Information

Zephyr® Biological Identifier

A RAPID, PATHOGEN SAMPLING & IDENTIFICATION SYSTEM



Feature Highlights

- Proven technology
- Compact and lightweight design
- Low operational and maintenance costs
- Easy to use and decontaminate
- PCR levels of sensitivity and specificity

Featuring cutting edge CANARY™ technology, the Zephyr Pathogen Identifier provides rapid, sensitive and specific identification of biological agents (bacteria, viruses, and toxins) from multiple sample matrices.

The Zephyr Pathogen Identifier offers breakthrough capabilities in sampling performance, reliability, and operational cost. This system is operator friendly and easy to use. The user interface walks the technician through the test protocol step-by-step via visual instructions and animations.

The biosensor library provides a selection of reagents depending on intended application. Can be used to test for diseases and common biothreat agents including anthrax, ricin, botulinum toxin, black plague, tularemia, smallpox, or foodborne pathogens including listeria and salmonella.

Applicable across multiple markets including military and first responder, food safety and security, and preventative environmental monitoring for food manufacturers.

Technical Specifications	
Physical System Requirements	Rackmount Chassis Spec (W x D x H): 48.26 x 33.02 x 13.34cm (19 x 13 x 5.25in)
	Bench space (W x D x H): 101.6 x 60.96 x 50.8cm (40 x 24 x 20in)
	Power: External 110-220VAC, 50-60Hz
	Power Consumption: 200 Watts, nominal
	Weight: 13.6kg (30lbs)
	Operating Temp. Range: 10°C to 40°C (50°F to 104°F)
	Humidity Range: 5 - 95%, non-condensing
	Surfaces can be wiped or rinsed with alcohol or bleach
Sample Throughput	Less than 5 minutes for detection and identification Positive / Negative Test results reported via computer screen
User Interface	Simple, easy to use touchscreen with Graphical User Interface
	Data entry via barcode scanner or keyboard
	On-screen animations walk user through assay sequence
	Internal diagnostics ensure the system is operating within specification before and during operation
Data Entry Point	Touch screen, optional keyboard, barcode reader
Reagents	Ready to use reagents
	Non-toxic
Data & Error Logging	System archives full dataset and all test results
Product Features	
Easy to use	Intuitive software walks user through necessary steps
	Test results presented without need for interpretation
Operator Friendly	Printable test results
	Optional Quality Control set-up
Secure	Administrative functions password protected
Maintenance	Performs internal hardware checks during the test process
	One-year parts and labor warranty included
	Extended Maintenance contract available
	24/7 Reach Back Call Center support
Sensitivity & Detection	Ability to detect Bacteria, Viruses and Toxins. LOD depends on target pathogen.
	Bacteria ~ 100 cfu
	Viruses ~ 500 pfu
	Toxins ~ 400 pg
Available Assays	Bacteria, Toxins, Viruses