

CI-90A Series Airborne Microbial Sampler 100 LPM Flow Rate Internal Label Printer When Accuracy Matters!™

Incorporates
new patent pending
or patented
technology



Design Provides Optimal Impaction Velocity To Ensure Superior Biological and Physical Collection Efficiencies:

ISO 14698-1 Validated

Superior Performance down to 1µm per ISO 14698-1 standard

Validated Flow Rate and Audible Flow Rate Alarm

HEPA Filtered Exhaust

Stainless Steel Enclosure

VHP Compatible

Internal Label Printer

Sample a Cubic Meter in 10 Minutes

Optional Remote Sampling for Isolators and Biosafety Cabinets, and Sampling of High Pressure Gases.

USP <797>

ISO 14698 and ISO 14644

EU GMP Annex 1

The **CI-90A** uses the highly effective and time proven active impaction method. This collects air through a perforated head, and microorganisms are impacted onto a standard 90mm petri dish placed under the sample head. Samples can be easily controlled, collected, and cultured.

In accordance with ISO 14698-1, the enclosure is **polished stainless steel** providing the highest resistance to particle or microbial attachment, and thus mitigating the risk of biocontamination. Also, the **sample head is fully autoclavable**, and the CI-90A is completely compatible with common cleaning procedures, including VHP. The internal exhaust incorporates a **HEPA filter** to prevent the introduction of particles or biocontamination. The CI-90A has **Automatic Flow Control** technology that regulates impaction velocity during all operating conditions, which ensures sample consistency, accuracy, and that tolerances are within calibration. An **audible flow alarm** provides additional assurance of a valid sample, and mitigates expensive deviation reports. The CI-90A has an **internal thermal label printer** that provides traceability.

Reliability, Accuracy & Support

The **CI-90A** microbial samplers are engineered and manufactured with only the highest quality materials. This ensures a long product life-cycle, and up to decades of reliable use. Moreover, Climet provides calibration support services for all our devices over their lifetime.

Return On Investment

Deviation reports and investigations among biopharma manufacturing sites cost between \$5,000 to \$12,000 per incident; and well exceeds the initial purchase price of the instrument. Climet's pharmaceutical grade design virtually eliminates interval calibration out-of-tolerance conditions (<1%), and by a large margin provides the industry's highest return on investment.

Exclusive Distributor: mk technology1 Pvt. Ltd., INDIA + 91-9810550075 sanjaymiglani@teknology1.com

Applications Include:

Cleanroom Monitoring & Validation
Medical Device Manufacturing
Pharmaceutical Manufacturing
Hospitals

Food & Beverage Processing
Aerospace Assembly
Pharmaceutical Compounding
Cosmetic Manufacturing

CLIMET®
INSTRUMENTS COMPANY

CI-90A Series Specifications

Custom Engineered Solutions: If you have a specific technical requirement, please contact us. We specialize in customizing our products to fit your needs.

Configurations	<p>950090A-00x = 100 LPM microbial sampler with Aluminum Sampling Head</p> <p>950090A-10x = 100 LPM microbial sampler with Passivated 316L Stainless Steel Sampling Head</p> <p>x (Power Supply): 1 = United States; 2 = Euro; 3 = United Kingdom</p> <p>* All models have 304 Stainless Steel Enclosure, RS-232 data interface, and HEPA filtered internal exhaust. Both sampling heads are autoclavable @ 134°C for 20 minutes.</p>
Performance	<p>Sample Flow Rate: 100 LPM (0.1 cubic meter per minute, or 3.53 cubic feet per minute)</p> <p>Sample time to measure a cubic meter : 10 minutes</p> <p>Flow Rate Control: Electronic, automatic closed loop</p> <p>Cleaning: Compatible with common cleaning and sterilization procedures, including VHP.</p> <p>Flow Rate Audible Alarm: Internal audible alarm, +/-10% of 100 LPM Flow Rate</p> <p>Data Interface: RS-232 for use with IDLoader Software</p> <p>Display: 4x20 character LCD</p> <p>Printer: Thermal Label Printer for traceability (Location ID, User ID, time, date, etc.)</p>
Programming & Memory	<p>Unit ID: User Selectable; 6 characters long</p> <p>User ID: Up to 10 users, 9 characters long.</p> <p>Location ID: Up to 100; 15 characters.</p> <p>Security: Prevents changes to settings, or stopping a sample in progress.</p>
Included Accessories and Features	<p>Internal thermal label printer, internal battery charger, battery, stainless steel locking collar, sample head, two rolls of adhesive labels, IQ/OQ Procedures, manual, and IDLoader Software included.</p> <p>High pressure diffusers, remote sample heads, tubing, validation documentation, and other accessories sold separately.</p>
Electrical AC and battery supported	<p>Battery: 9.6 VDC, 7.6 Amp Hours</p> <p>Battery Operation (typical) : 7 hours with continuous sampling</p> <p>Battery Recharge time: 2.0-2.5 hours (built-in charger)</p> <p>Wall Power: Universal 100-240 VAC Input</p>
Dimensions & Weight	<p>7.5"(H) x 8.1" (W) x 9.9" (L) (19.05 cm x 20.574 cm x 25.146 cm)</p> <p>CI-90A with aluminum sample head, weight with battery is 10.5 lbs. (4.76 Kg)</p> <p>CI-90A with stainless steel sample head, weight with battery is 12 lbs. (5.44Kg)</p>
Environmental	<p>Operating temperature: 0-36°C, 32-97°F</p> <p>0-90% relative humidity, non-condensing</p>

- Biological and Physical Efficiency validated to ISO 14698-1, with unparalleled performance down to 1µm. Biological and Physical Efficiency test report available to customers upon request.
- Recommended calibration frequency, every 12 months for flow system accuracy.

We value the opportunity to work with you. For further technical information and questions, please contact us.



CLiMET Exclusive Distributor

mk technology1 Pvt. Ltd.,
GG-1, 139-C, PVR Road, Vikas Puri,
New Delhi -110018, INDIA

+ 91-9810550075
sanjaymiglani@teknology1.com
www.teknology1.com

CLiMET[®]
INSTRUMENTS COMPANY

Rev 1.0 Jan 2016