

# CI-99

## Automated Airborne Microbial Sampler For Isolators and Controlled Environments

### When Accuracy Matters!™



Designed For Automated Microbial Sampling of Isolators

Flow Rate Provides Optimal Velocity & Impaction To Ensure High Biological and Physical Collection Efficiencies

High Reliability & Assurance

HEPA Filtered Exhaust

VHP Compatible

100 LPM Flow Rate

Sample a Cubic Meter in 10 Minutes

Variable Duty Cycle for Extended Sample Period

Uses Standard Sanitary Fittings

Connects to Existing Network Infrastructure, SCADA and LIMS Software.

USP <797>

ISO 14644

ISO 14698

EU GMP Annex 1

Aseptic isolators used in the manufacture of sterile products must be monitored in accordance with regulatory standards. This CI-99 was designed to facilitate this task and minimize human error. The CI-99 uses the highly effective and time proven active impaction method. This collects air through a perforated head, and microorganisms are impacted onto a standard 90 mm petri dish placed into the device. The head is fully autoclavable, and the unit is completely compatible with common cleaning procedures, including VHP. Moreover, all sampled air is **HEPA filtered** before passing through the external exhaust port. Standard sanitary fittings allow easy assembly for permanent installation.

#### Reliability, Accuracy & Support

The CI-99 microbial sampler is engineered and manufactured with only the highest quality materials. This ensures a long product life-cycle, and up to decades of reliable use. Moreover, we provide calibration support services for all our devices over their lifetime.

#### Return On Investment

Not all microbial samplers are equal. The initial purchase price, cost of calibrations, cost of consumables, out of warranty repairs, and product life-cycle all factor into calculating the Return on Investment. Other intrinsic factors include assurance, reliability, accuracy, application support, and superior customer service. These make Climet the unsurpassed leader in the manufacture of instrumentation for cleanroom monitoring, validation, and certification.



#### Applications Include:

Isolators

Medical Device Manufacturing

Pharmaceutical Manufacturing

Biotechnology

Biosafety Cabinets

Hospitals

Pharmaceutical Compounding

Controlled Environments

**CLIMET**<sup>®</sup>  
INSTRUMENTS COMPANY

# CI-99 Specifications

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

<b>Configurations</b>	<p>CI-99 = 100 LPM microbial sampler</p> <p><b>Aluminum or 316L Stainless Steel Sampling Head Sold Separately</b></p> <p><b>* 304 Stainless Steel Enclosure, Ethernet data interface, and HEPA filtered exhaust. Both sampling heads are autoclavable @ 134°C for 20 minutes.</b></p>
<b>Performance</b>	<p><b>Sample Flow Rate:</b> 100 LPM (0.1 cubic meter per minute, or 3.53 cubic feet per minute)</p> <p><b>Sample time to measure a cubic meter :</b> 10 minutes</p> <p><b>Sample Control:</b> Fixed volume or variable duty cycle to cover extended monitoring</p> <p><b>Flow Rate Control:</b> Electronic, automatic closed loop</p> <p><b>Cleaning:</b> Compatible with common cleaning and sterilization procedures, <b>including VHP.</b></p> <p><b>Data Interface:</b> Diagnostic web page and control via Ethernet Modbus. IP-54 sealable RJ45 connector</p> <p><b>LEDs:</b> Power, Blower, Error (Flow Rate), Delay, Sampling, and Ethernet (Link &amp; Activity)</p> <p><b>Interface:</b> Controlled and monitored via standard Ethernet</p> <p><b>External Control Inputs:</b> Two normally open inputs, 5V, 10mA, 4-Pin IP-54 DIN Connector:</p> <ul style="list-style-type: none"> <li>(1) Start</li> <li>(2) Stop</li> </ul> <p><b>External Control Outputs:</b> Four normally open dry contact, 24 VDC (1A), 6-Pin IP-54 DIN connector</p> <ul style="list-style-type: none"> <li>(1) Sampling</li> <li>(2) Blower</li> <li>(3) Delay</li> <li>(4) Alarm</li> </ul>
<b>Included Accessories and Features</b>	<p>316L stainless steel locking collar, IQ/OQ Docs, manual, and integrated exhaust fitting.</p> <p>Uses standard sanitary stainless steel fittings.</p>
<b>Electrical</b>	<p>Wall Power: Universal 100-240 VAC Input, Fused</p>
<b>Dimensions &amp; Weight</b>	<p>5.9" (H) x 9.84" (W) x 7.87" (L) ( 15 cm x 25 cm x 20 cm )</p> <p>Weight is 12.45 lbs. (5.6 Kg)</p>
<b>Environmental</b>	<p>Operating temperature: 5-36°C, 41-97°F</p>

- High pressure diffusers, validation documentation, and other accessories sold separately.
- 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 Instruments Company

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