

# Microbial air sampler CLIMET

## CI-97 Series – 100 LPM Flow Rate

### SPECIFICATIONS

#### Configurations:

CI-97+: **100 LPM** Enclosure is 304 Stainless Steel, and includes mounts for a tripod.  
**100% VHP Compatible:** Internals are leak tested with external exhaust port. Recommend VHP exposure while engaged at least quarterly, monthly preferred, to sanitize interior and mitigate risk of cross contamination. CI-97: with Aluminum Sample Head, HEPA Filtered

#### Performance:

**Stainless Steel Grade 304:** Highest tensile strength, temperature resistance, and corrosion resistance.

**Flow Control:** Electronic, automatic closed loop  
**HEPA Filtered Exhaust:** YES, and factory tested & certified to ISO Class 3

**Cleaning:** Compatible with common cleaning and sterilization procedures. Recommend quarterly VHP while engaged

**Display:** Capacitive (cell phone-type) touch screen with pinch-to-zoom and scroll capabilities

**Sample Control:** Continuous sample or variable duty cycle to cover extended monitoring

**Network Time Server:** Yes, compatible. ALCOA: ensures *contemporaneous* reporting



#### Programming & Memory:

**Unit ID:** User Selectable

**Sample Programming:** 300 Programs, 300 User IDs & 1,000 Location IDs (factory expandable)

**Security:** 5 user access levels

**Sample Volumes:** 1 liter increments, with 10 liter minimum (1m<sup>3</sup> = 1,000 liters)

**Calibration:** Calibration Lockout (user enabled)

**Programmable Delay:** 5 second minimum (user programmable)

**Sample Termination Lockout:** User enabled. Prevents sample from terminating

**Altitude Compensation:** Yes, user input

**Unit-to-Unit Cloning:** Yes

#### Sample Memory Buffer:

Solid state onboard sample memory buffer - - 50,000 samples

#### Reporting:

**Data Interface:** Wired Ethernet, RS-232, USB 2.0 Type A port (Data Export), and another USB 2.0 Type B (RNDIS only) - The USB Type A port (Data Export) can be disabled in the user settings, or factory disabled at no charge upon request

**Metadata:** Date, Time, Unit ID, User ID, Model#, Serial#, Program Name, Location ID, Sample Volume (L), Flow Rate (LPM), Sample Type (Continuous or Segmented), Number of Segments, Sample Duration (start and end timestamp with duration), Alarm Status, Calibration Date, and Calibration Due Date

**User Audit Trail:** Yes

**PDF Reports:** GMP metadata reports, audit logs, stored data, program settings, and audit trail All sample data is made in \*.CSV format, with a 32-bit hash to mitigate data manipulation/corruption.

Sample data seamlessly integrates into MODA or other LIMS without the need for middleware

**Flow Rate:** Light Ring, audible alarm, and sample termination if not +/-5% of stated flow rate (ISO 21501-4:2018)

**Low Battery indicator:** If battery charge is insufficient to run a sample, a notification will appear 100 LPM with standard 90 mm petri dish @ 333 holes at a 0.57 mm with inlet velocity of 19.5 m/s Theoretical d50 = 1.08 µm with an experimental d50 < 1 µm (*exceeds ISO 14698-1 and BS EN 17141 requirements*)

Both sampling heads are autoclavable @ 134°C for 20 minutes

#### Alarms:

#### Sample Heads:

#### Electrical:

Lithium-ion rechargeable battery, with **internal battery charger**. Battery Operation of 8+ hours (typical), and 6 hours continuous sampling. Battery Recharge time of 3.5-4 hours. Wall Power is Universal 100-240 VAC Input

#### Dimensions & Weight:

22.43 cm x 16.51 cm x 21.44 cm

Weight with battery installed and aluminum sample head: 3.175 kg

#### Environmental:

Temperature: 0-36°C operational 0-90% relative humidity, non-condensing

#### Accessories:

**Included:** Battery (interchangeable with CI-x70), power supply with cord, aluminum sample head, aluminum sample head dust cap, validation document, USB flash drive, user manual, and quick start guide

**Optional:** Stainless steel sample head, remote sampling and compressed gas accessories, hard shell carrying case, and optional CI-312 external spare battery charger

