

CLIMET CI-45x Series

Portable Airborne Particle Counters

SPECIFICATIONS

Sample Flow Rate:	50 LPM.
Sample Volume Control:	Flow Control and internal mass flow meter ensures compliance with ISO 21501-4 Flow Rate tolerance of $\pm 5\%$. Alarm triggers if flow rate is out of compliance.
Flow Rate Control:	Electronic, automatic closed loop.
Hepa Filtered Exhaust:	All models certified to ISO Class 3.
Laser Diode:	Optimal balance of long life, stability and resolution for improved accuracy.
Channel Sizes:	0.3, 0.5, 1, 5 μm .
Concentration limit:	20 x 10 ⁶ particles per cubic meter.
Count Efficiency:	50% Count Efficiency (a measure of accuracy): < $\pm 10\%$ to Climet standards. Substantially exceeding ISO 21501-4 of < $\pm 20\%$. 100% Count Efficiency (a measure of laser alignment): < $\pm 10\%$. In compliance with ISO 21501-4.
Zero count:	ISO 21501-4 compliant.
Cleaning:	Compatible with common cleaning and sterilization procedures, including VHP.
Program:	Up to 30 users defined and named programs, containing IDs and settings.
Memory:	3000 samples: Date, Time, 4 Particle Channels, Flow, ID, Sample Volume, transferable to PC via RS232 serial port, Ethernet ou USB jump drive.
Unit ID:	User selectable.
User ID:	User ID: Up to 20 users, plus supervisor, with password security.
Security:	4 security levels, with user authentication.
Location ID:	Up to 100 per program, 16 characters long.
Cloning:	All models support Unit-to-Unit, and PC-to-Unit. Cloning via USBflash drive on CI-454 model.
Battery:	9.6 VDC, 12.6 Amp. Hour battery Operation: 4 hours with continuous sampling. Battery Recharge time: 3.5-4 hours (built-in charger).
Wall Power:	Universal 100-240 VAC Input.
Dimensions:	21.97 x 21.6 x 24.1 cm.
Weight:	4.99 kg without battery and 6.46 kg with battery.
Operating Range:	0-36°C. 0-90% RH, non-condensing.



Included Accessoires and Features: All models come with an internal thermal printer, internal battery charger, battery, stainless steel isokinetic probe with 10 feet of tubing, zero count filter, two rolls of paper, cloning cable, manual, and external exhaust fitting on appropriate models. Flash drive with USB models.

Configurations: 50 LPM Particle Counters
(Sizes: 0.3 μm , 0.5 μm , 1.0 μm , and 5.0 μm):

- **CI-454:** External HEPA filtered exhaust, with RS-232, Ethernet, and USB
- **CI-456:** External HEPA filtered exhaust, with RS-232, Wi-Fi, and USB