The CLiMET CI-150 series of full-featured airborne particle counters are the smallest, lightest and fastest counters with unsurpassed ease of use.

It is the smallest and lightest 1.0 CFM counter with unsurpassed ease of use.

KEY BENEFICIAL FEATURES:
- 1 cubic foot per minute sampling rate
- EU GMP Annex 1, ISO 14644-1, FS-209E calculation and printed Pass/Fail report
- Meets or exceeds ISO 21501-4.
- Simple operation, including setup, installation, connection, communication, and validation
- Readily connects to a variety of data acquisition or standard monitoring platforms
- Built-in flow rate sensor available for fail-safe operation
- Laser status and flow measurement continuously monitored and controlled
- LCD touch screen: bright, big and colorful display, larger font for displayed results
- Superior internal data storage and security protection
- Designed to minimize particle emission (factory certified to ISO class 2 level emission)
- Easy to clean rugged seamless stainless steel enclosure and small footprint
- Pharmaceutically focused functionality and applications.

Versatile Ethernet Modbus TCP/IP Communications
- Ethernet Modbus for data transfer
- TCP/IP protocol for near real time review of counts and status
- Internal website accessible through web browsers
World Leading Manufacturer of Application Driven Optical Particle Counters

Sample Rate: 1.0 CFM (28.3 LPM)
Optics: Elliptical Mirror (Patent #: 5,467,189) - highly efficient light collection and wide angle optics, sets diode conservatively and extends diode lifespan
Particle Size: 0.3 µm, 0.5 µm, 1.0 µm, 5.0 µm - four channels
Concentration Limit: 1.0 x 10^6 particles/ft³ (3.53 x 10^7 particles/m³), at 10% coincidence
Zero Count: < 1 count per 5 min (as per JIS 9921)
Calibration: Factory prime calibration with PLS particles in accordance with FSQ209E, ASTM F-328 and JIS 9921, NIST traceable using CalPro 2.0+ software. Calibration is recommended every 6 - 12 months.
Flow Rate Control: The mass flow is monitored and controlled automatically and continuously via flow sensor and feedback circuitry. Electronic closed loop.
Power Supply: Replaceable 9.6 V, 12.6 A/hr Nickel Metal Hydride battery. Power auto switching: 100 - 240 VAC, 47/63 Hz, 90 VA max
Battery Operation Time: 3.5 - 4.5 hrs continuous operation (typically 4 hrs) 3.5 - 4.0 hrs recharge duration (internal charger)
Weight: 11.0 lbs (5.0 kg) without battery; 14.25 lbs (6.46 kg) with battery
Light Source: Laser Diode, 30 - 50 mW

Memory: 3,000 samples: date, time, 4 particle channels, flow, ID, sample volume. Transferable to PC via RS-232 serial port and Ethernet.
Programs and User Configuration: Unit ID is user selectable. Up to 30 user-defined programs, each contains IDs and settings. Up to 100 location IDs per program - 16 characters long. Up to 20 user IDs, besides supervisor, each w/ password authentication
Security Protection: 4 security levels with user authentication
Communications: RS-232; Ethernet 10/100 Base-T (autosensing), half or full duplex (autosensing), built-in http web server, Ethernet Modbus® and TELNET server
Alarm: Alarm limits are programmable for all particle channels and flows
Printer: Thermal Dot Matrix in-built printer
Display: TFT Color LCD, 1/4 VGA Touch Screen
Dimensions (HxWxD): 8.65 x 8.50 x 9.50 inch (21.97 x 21.60 x 24.10 cm³)
Operating Conditions: 0 - 36 °C, 10 - 90% RH, non-condensing

### Standard Accessories
- Iso-kinetic probe w/ Tubing
- Zero Count Filter
- Power Cord
- Manual (includes IQ/OQ Document)
- Thermal Printer Paper
- External Exhaust Fitting
- Start-up CD-ROM
- Quick Start Guide

### Optional Accessories
- High Pressure Diffuser
- Sample Probe, Filter Scanning (fan)
- Sample Probe Stand
- Shipping Case
- Light Blocker ISO Probe
- Light Blocker
- Bar Code Scanner
- Clean room Printer Paper
- 9.6V Ni-MH Battery

### Software
- Universal Excel Macro for Windows (standard)
- Universal Secure Excel Macro for Windows
- Unit Validation Document
- ID Pro
- Data Pro 2.5

* vary with different models of different specifications.

Please Contact PSC Asia for More Information:  [www.psc-asia.com](http://www.psc-asia.com)
Pharmaceutical Services Corporation Pte Ltd  26 Boon Lay Way, Tradehub 21, 01-92, 609970 Singapore
Tel: (+65) 65158081     Fax: (+65) 65158082
The CLiMET CI-450 series of full-featured airborne particle counters are the smallest, lightest and fastest counters with unsurpassed ease of use.

Completes a full cubic meter sample in 20 minutes.

KEY BENEFICIAL FEATURES:
- 50 litre per minute sampling rate
- EU GMP Annex 1, ISO 14644-1, FS-209E calculation and printed Pass/Fail report
- Meets or exceeds ISO 21501-4.
- Simple operation, including setup, installation, connection, communication, and validation
- Readily connects to a variety of data acquisition or standard monitoring platforms
- Built-in flow rate sensor available for fail-safe operation
- Laser status and flow measurement continuously monitored and controlled
- LCD touch screen: bright, big and colorful display, larger font for displayed results
- Superior internal data storage and security protection
- Designed to minimize particle emission (factory certified to ISO class 2 level emission)
- Easy to clean rugged seamless stainless steel enclosure and small footprint
- Pharmacologically focused functionality and applications.

Versatile Ethernet Modbus TCP/IP Communications
- Ethernet Modbus for data transfer
- TCP/IP protocol for near real time review of counts and status
- Internal website accessible through web browsers

Popular Features of CLiMET Products
- Easy to Install, Operate and Validate
- Multiple Communication Output Interfaces enhance Connectivity
- Extensive Settings and Configurations
- 2 Year Warranty
- Quality Assurance
- Optimized Performance
- Longer Battery and Laser Diode Lifespan
- Industry Standard Parts and Accessories
- Lightweight, Compact, Portable and Remote
- Stainless Steel Enclosure
- Filtered External Exhaust

Applications
- Controlled Environments and Critical Processes
- Facility Certification for Compliance Regulations
- Continuous Monitoring of Clean rooms
- Performance Verification
- Indoor Air Quality
- Process Control
- HVAC Applications
- Filter Testing
- Emission Sourcing
- Remote Sampling
- Self Diagnosis
- QA Programs
- Trend Tracking & Analysis
- Statistical Process Control
- Portable or Dedicated Use
- Troubleshooting Particle Excursions
## SPECIFICATION

**Sample Rate:** 50 LPM (1.77 CFM)

**Optics:** Elliptical Mirror (Patent #: 5,467,189) - highly efficient light collection and wide angle optics, sets diode conservatively and extends diode lifespan

**Particle Size:** 0.3 µm, 0.5 µm, 1.0 µm, 5.0 µm - four channels

**Concentration Limit:** 2.0 x 10^4 particles/ liter (2.0 x 10^7 particles/ m³), at 10% coincidence

**Zero Count:** < 1 count per 5 min (as per JIS 9921)

**Calibration:** Factory prime calibration with PLS particles in accordance with FS-209E, ASTM F-328 and JIS 9921, NIST traceable using CalPro 2.0+ software. Calibration is recommended every 6 - 12 months.

**Flow Rate Control:** The mass flow is monitored and controlled automatically and continuously via flow sensor and feedback circuitry. Electronic closed loop.

**Power Supply:** Replaceable 9.6 V, 12.6 A/hr Nickel Metal Hydride battery. Power auto switching: 100 - 240 VAC, 47/63 Hz, 90 VA max

**Battery Operation Time:** 3.5 - 4.5 hrs continuous operation (typically 4 hrs)

**Weight:** 11.0 lbs (5.0 kg) without battery; 14.25 lbs (6.46 kg) with battery

**Light Source:** Laser Diode, 30 - 50 mW

**Memory:** 3,000 samples: date, time, 4 particle channels, flow, ID, sample volume. Transferable to PC via RS-232 serial port and Ethernet.

**Programs and User Configuration:** Unit ID is user selectable. Up to 30 user-defined programs, each contains IDs and settings. Up to 100 location IDs per program - 16 characters long. Up to 20 user IDs, besides supervisor, each w/ password authentication

**Security Protection:** 4 security levels with user authentication

**Communications:** RS-232; Ethernet 10/100 Base-T (autosensing), half or full duplex (autosensing), built-in http web server, Ethernet Modbus® and TELNET server

**Alarm:** Alarm limits are programmable for all particle channels and flows

**Printer:** Thermal Dot Matrix in-built printer

**Display:** TFT Color LCD, 1/4 VGA Touch Screen

**Dimensions (HxWxD):** 8.65 x 8.50 x 9.50 inch³ (21.97 x 21.60 x 24.10 cm³)

**Operating Conditions:** 0 - 36 °C. 10 - 90% RH, non-condensing

### Standard Accessories*

- Iso-kinetic probe w/ Tubing
- Zero Count Filter
- Power Cord
- Manual (includes IQ/OQ Document)
- Thermal Printer Paper
- External Exhaust Fitting
- Start-up CD-ROM
- Quick Start Guide

### Optional Accessories*

- High Pressure Diffuser
- Sample Probe, Filter Scanning (fan)
- Sample Probe Stand
- Shipping Case
- Light Blocker ISO Probe
- Light Blocker
- Bar Code Scanner
- Clean room Printer Paper
- 9.6V Ni-MH Battery

### Software*

- Universal Excel Macro for Windows (standard)
- Universal Secure Excel Macro for Windows
- Unit Validation Document
- ID Pro
- Data Pro 2.5

* vary with different models of different specifications.

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Please Contact PSC Asia for More Information:  www.psc-asia.com

Pharmaceutical Services Corporation Pte Ltd  26 Boon Lay Way, Tradehub 21, 01-92, 609970 Singapore

Tel: (+65) 65158081     Fax: (+65) 65158082
The CLiMET CI-750 series of full-featured airborne particle counters are the smallest, lightest and fastest counters with unsurpassed ease of use. Completes a full cubic meter sample in under 14 minutes.

**Popular Features of CLiMet Products**

- Easy to Install, Operate and Validate
- Multiple Communication Output Interfaces enhance Connectivity
- Extensive Settings and Configurations
- 2 Year Warranty
- Quality Assurance
- Optimized Performance
- Longer Battery and Laser Diode Lifespan
- Industry Standard Parts and Accessories
- Lightweight, Compact, Portable and Remote
- Stainless Steel Enclosure
- Filtered External Exhaust

**Applications**

- Controlled Environments and Critical Processes
- Facility Certification for Compliance Regulations
- Continuous Monitoring of Cleanrooms
- Performance Verification
- Indoor Air Quality
- Process Control
- HVAC Applications
- Filter Testing
- Emission Sourcing
- Remote Sampling
- Self Diagnosis
- QA Programs
- Trend Tracking & Analysis
- Statistical Process Control
- Portable or Dedicated Use
- Troubleshooting Particle Excursions

**KEY BENEFICIAL FEATURES:**

- 75 litre per minute sampling rate
- EU GMP Annex 1, ISO 14644-1, FS-209E calculation and printed Pass/Fail report
- Meets or exceeds ISO 21501-4.
- Simple operation, including setup, installation, connection, communication, and validation
- Readily connects to a variety of data acquisition or standard monitoring platforms
- Built-in flow rate sensor available for fail-safe operation
- Laser status and flow measurement continuously monitored and controlled
- LCD touch screen: bright, big and colorful display, larger font for displayed results
- Superior internal data storage and security protection
- Designed to minimize particle emission (factory certified to ISO class 2 level emission)
- Easy to clean rugged seamless stainless steel enclosure and small footprint
- Pharmaceutically focused functionality and applications.

**Versatile Ethernet Modbus TCP/IP Communications**

- Ethernet Modbus for data transfer
- TCP/IP protocol for near real time review of counts and status
- Internal website accessible through web browsers
World Leading Manufacturer of Application Driven Optical Particle Counters

Sample Rate: 75 LPM (2.65 CFM)
Optics: Elliptical Mirror (Patent #: 5,467,189) - highly efficient light collection and wide angle optics, sets diode conservatively and extends diode lifespan
Particle Size: 0.3 µm, 0.5 µm, 1.0 µm, 5.0 µm - four channels
Concentration Limit: 1.33 x 10⁴ particles/ liter (1.33 x 10⁷ particles/ m³), at 10% coincidence
Zero Count: < 1 count per 5 min (as per JIS 9921)
Calibration: Factory prime calibration with PLS particles in accordance with FS-209E, ASTM F-328 and JIS 9921, NIST traceable using CalPro 2.0+ software. Calibration is recommended every 6 - 12 months.
Flow Rate Control: The mass flow is monitored and controlled automatically and continuously via flow sensor and feedback circuitry. Electronic closed loop.
Power Supply: Replaceable 9.6 V, 12.6 A/hr Nickel Metal Hydride battery. Power auto switching: 100 - 240 VAC, 47/63 Hz, 90 VA max
Battery Operation Time: 3.5 - 4.5 hrs continuous operation (typically 4 hrs)
3.5 - 4.0 hrs recharge duration (internal charger)
Weight: 11.0 lbs (5.0 kg) without battery; 14.25 lbs (6.46 kg) with battery
Light Source: Laser Diode, 30 - 50 mW

Memory: 3,000 samples: date, time, 4 particle channels, flow, ID, sample volume. Transferable to PC via RS-232 serial port and Ethernet.
Programs and User Configuration: Unit ID is user selectable. Up to 30 user-defined programs, each contains IDs and settings. Up to 100 location IDs per program - 16 characters long. Up to 20 user IDs, besides supervisor, each w/ password authentication
Security Protection: 4 security levels with user authentication
Communications: RS-232; Ethernet 10/100 Base-T (autosensing), half or full duplex (autosensing), built-in http web server, Ethernet Modbus® and TELNET server
Alarm: Alarm limits are programmable for all particle channels and flows
Printer: Thermal Dot Matrix in-built printer
Display: TFT Color LCD, 1/4 VGA Touch Screen
Dimensions (HxWxD): 8.65 x 8.50 x 9.50 inch³ (21.97 x 21.60 x 24.10 cm³)
Operating Conditions: 0 - 36 °C. 10 - 90% RH, non-condensing

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<tr>
<th>Model</th>
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<th>USB</th>
<th>Barcode</th>
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<td>CI-753</td>
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<tr>
<td>CI-754</td>
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<td>No</td>
</tr>
</tbody>
</table>

Standard Accessories*
- Iso-kinetic probe w/ Tubing
- Zero Count Filter
- Power Cord
- Manual (includes IQ/OQ Document)
- Thermal Printer Paper
- External Exhaust Fitting
- Start-up CD-ROM
- Quick Start Guide

Optional Accessories*
- High Pressure Diffuser
- Sample Probe, Filter Scanning (fan)
- Sample Probe Stand
- Shipping Case
- Light Blocker ISO Probe
- Light Blocker
- Bar Code Scanner
- Clean room Printer Paper
- 9.6V Ni-MH Battery

Software*
- Universal Excel Macro for Windows (standard)
- Universal Secure Excel Macro for Windows
- Unit Validation Document
- ID Pro
- Data Pro 2.5

* vary with different models of different specifications.

Please Contact PSC Asia for More Information: www.psc-asia.com
Pharmaceutical Services Corporation Pte Ltd 26 Boon Lay Way, Tradehub 21, 01-92, 609970 Singapore
Tel: (+65) 65158081 Fax: (+65) 65158092
The CLiMET CI-1050 series of full-featured airborne particle counters are the smallest, lightest and fastest counters with unsurpassed ease of use.

Completes a full cubic meter sample within 10 minutes.

KEY BENEFICIAL FEATURES:
- 100 litre per minute sampling rate
- EU GMP Annex 1, ISO 14644-1, FS-209E calculation and printed Pass/Fail report
- Meets or exceeds ISO 21501-4.
- Simple operation, including setup, installation, connection, communication, and validation
- Readily connects to a variety of data acquisition or standard monitoring platforms
- Built-in flow rate sensor available for fail-safe operation
- Laser status and flow measurement continuously monitored and controlled
- LCD touch screen: bright, big and colorful display, larger font for displayed results
- Superior internal data storage and security protection
- Designed to minimize particle emission (factory certified to ISO class 2 level emission)
- Easy to clean rugged seamless stainless steel enclosure and small footprint
- Pharmaceutically focused functionality and applications.

Versatile Ethernet Modbus TCP/IP Communications
- Ethernet Modbus for data transfer
- TCP/IP protocol for near real time review of counts and status
- Internal website accessible through web browsers

Popular Features of CLiMet Products
- Easy to Install, Operate and Validate
- Multiple Communication Output Interfaces enhance Connectivity
- Extensive Settings and Configurations
- 2 Year Warranty
- Quality Assurance
- Optimized Performance
- Longer Battery and Laser Diode Lifespan
- Industry Standard Parts and Accessories
- Lightweight, Compact, Portable and Remote
- Stainless Steel Enclosure
- Filtered External Exhaust

Applications
- Controlled Environments and Critical Processes
- Facility Certification for Compliance Regulations
- Continuous Monitoring of Clean rooms
- Performance Verification
- Indoor Air Quality
- Process Control
- HVAC Applications
- Filter Testing
- Emission Sourcing
- Remote Sampling
- Self Diagnosis
- QA Programs
- Trend Tracking & Analysis
- Statistical Process Control
- Portable or Dedicated Use
- Troubleshooting Particle Excursions
CIB1050 Series
Airborne Particle Counters

World Leading Manufacturer of Application Driven Optical Particle Counters

Sample Rate: 100 LPM (3.53 CFM)

Optics: Elliptical Mirror (Patent #: 5,467,189) - highly efficient light collection and wide angle optics, sets diode conservatively and extends diode lifespan

Particle Size: 0.5 µm, 1.0 µm, 3.0 µm, 5.0 µm - four channels

Concentration Limit: 1.0 x 10^4 particles/liter (1.0 x 10^7 particles/m³), at 10% coincidence

Zero Count: < 1 count per 5 min (as per JIS 9921)

Calibration: Factory prime calibration with PLS particles in accordance with FS-209E, ASTM F-328 and JIS 9921, NIST traceable using CalPro 2.0+ software. Calibration is recommended every 6 - 12 months.

Flow Rate Control: The mass flow is monitored and controlled automatically and continuously via flow sensor and feedback circuitry. Electronic closed loop.

Power Supply: Replaceable 9.6 V, 12.6 A/hr Nickel Metal Hydride battery. Power auto switching: 100 - 240 VAC, 47/63 Hz, 90 VA max

Battery Operation Time: 3.5 - 4.5 hrs continuous operation (typically 4 hrs) 3.5 - 4.0 hrs recharge duration (internal charger)

Weight: 11.0 lbs (5.0 kg) without battery; 14.25 lbs (6.46 kg) with battery

Light Source: Laser Diode, 30 - 50 mW

Memory: 3,000 samples: date, time, 4 particle channels, flow, ID, sample volume. Transferable to PC via RS-232 serial port and Ethernet.

Programs and User Configuration: Unit ID is user selectable.

Security Protection: 4 security levels with user authentication

Communications: RS-232; Ethernet 10/100 Base-T (autosensing), half or full duplex (autosensing), built-in http web server, Ethernet Modbus® and TELNET server

Alarm: Alarm limits are programmable for all particle channels and flows

Printer: Thermal Dot Matrix in-built printer

Display: TFT Color LCD, 1/4 VGA Touch Screen

Dimensions (HxWxD): 8.65 x 8.50 x 9.50 inch³ (21.97 x 21.60 x 24.10 cm³)

Operating Conditions: 0 - 36 °C. 10 - 90% RH, non-condensing

Model | Ethernet | USB | Barcode
---|---|---|---
CI-1052x | No | No | No
CI-1053 | Yes | No | No
CI-1054 | Yes | Yes | Yes

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Pharmaceutical Services Corporation Pte Ltd 26 Boon Lay Way, Tradehub 21, 01-92, 609970 Singapore
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ISO9001:2000 Certified

SOFTWARE*
Universal Excel Macro for Windows (standard)
Universal Secure Excel Macro for Windows
Unit Validation Document
ID Pro
Data Pro 2.5

STANDARD ACCESSORIES*
- Iso-kinetic probe w/ Tubing
- Zero Count Filter
- Power Cord
- Manual (includes IQ/OQ Document)
- Thermal Printer Paper
- External Exhaust Fitting
- Start-up CD-ROM
- Quick Start Guide

OPTIONAL ACCESSORIES*
- High Pressure Diffuser
- Sample Probe, Filter Scanning (fan)
- Sample Probe Stand
- Shipping Case
- Light Blocker ISO Probe
- Light Blocker
- Bar Code Scanner
- Clean room Printer Paper
- 9.6V Ni-MH Battery

* vary with different models of different specifications.