

High Speed Portable Airborne Particle Counter

Time and Cost Savings Comparison

| # of 1 m ³ samples/day | Sample Time (minutes) | | Annual Savings with 100 LPM vs 50 LPM | | | **Annual Cost Savings 100 LPM vs 28.3 LPM |
|-----------------------------------|-----------------------|-------------------|---------------------------------------|---------|----------|--|
| | 100 LPM instrument | 50 LPM instrument | **Minutes | **Hours | **Cost | |
| 1 | 10 | 20 | 2,600 | 43 | \$867 | \$2,167 |
| 5 | 50 | 100 | 13,000 | 217 | \$4,333 | \$10,833 |
| 10 | 100 | 200 | 26,000 | 433 | \$8,667 | \$21,667 |
| 20 | 200 | 400 | 52,000 | 867 | \$17,333 | \$43,333 |
| 30 | 300 | 600 | 78,000 | 1,300 | \$26,000 | \$65,000 |
| 50 | 500 | 1000 | 130,000 | 2,167 | \$43,333 | \$108,333 |

** based on 260 working days/yr and \$20/hr labor expense

Technical Details

| | | | |
|---------------------------------------|--|--|--|
| Input Flow Rates | 100 LPM, 75 LPM or 50 LPM * (LPM=liters per minute) | Battery Packs | Long life lithium-ion battery (optional) |
| Channel Sizes | 2 or 6 channel, customizable from 0.3 µm to 100 µm * | Battery Operating Time | <ul style="list-style-type: none"> • 2.8 hrs at 100 LPM - 11 samples (10 min sample, 5 min hold) • 4.0 hrs at 75 LPM - 13 samples (13:20 min sample, 5 min hold) • 6.3 hrs at 50 LPM - 15 samples (20 min sample, 5 min hold) |
| Coincidence Loss | <5% at 14x10 ⁶ particles/m ³ (<5% at 400,000 particles/ft ³) | Dimensions | 30 x 30 x 20 cm (12 x 12 x 8 in) |
| Laser | Extended-life laser diode | External Surface | Available in stainless steel and coated aluminum housing |
| Zero Count | 1 count or less in 5 minutes (JIS) | Weight | 10.2 kg (22.5 lbs) - stainless steel 8.2 kg (18 lbs) - aluminum 1.5 kg (3.5 lbs) - optional battery |
| Display Max | 14,999,999 counts (total particles, particles/m ³ , particles/L or particles/ft ³) | Printer | Built-in thermal printer |
| Data Storage | 1,000 samples | Reports | Raw data, ISO 14644-1, FS209E |
| Location Names | 1,000 sample location names (22 alpha numeric characters) | Operating Environment | Temperature: 10° - 40° C (50° - 105° F) Relative humidity: 0 - 90% (noncondensing) <small>* Specify at time of order</small> |
| Display | Backlit LCD with touch screen Available in English, Spanish, French or German * | Accessories | |
| Optional Environmental Sensors | Relative humidity (±5%) Temperature (±2° C) Differential pressure (±3%) Air velocity (±5%) * | Temperature and relative humidity sampling probe* Air velocity sampling probe* Built-in differential pressure sensor* Purge filter assembly for the APC Portable Carrying Case for the APC Portable APC FMS Facility Monitoring System Software APC Compressed Gas Adapter APCOne11 Download Utility Software | |
| Com Ports | RS 232, USB (RS 485: optional) | APC52.1 | |
| Calibration | Calibrated to NIST traceable standards | | |
| Power Req | 100-240 V A/C, 50-60 Hz | | |
| Pump | Rated for continuous use | | |



Biotest HYCON

High Speed Portable Airborne Particle Counter

SAMPLES FASTER

SAVES TIME

LOWERS COST



With a flow rate of 100 LPM, the APC M3 measures one cubic meter (m³) of air in just 10 minutes

APC M3 High Speed Portable Airborne Particle Counter

Save time and money by sampling one cubic meter (m³) of air in 10 minutes at 100 LPM

The Biotest APC M3 Portable Airborne Particle Counter is the world's fastest particle counter. Designed to monitor cleanroom environments, especially aseptic filling operations, it offers users significant productivity and cost savings.

When facilities are required to measure one cubic meter (m³) of air, conventional 1 cfm (28.3 LPM) particle counters must sample for 35 minutes. 50 LPM instruments require a 20 minute sample. However, the APC M3 at 100 LPM

can measure a cubic meter (m³) of air in 10 minutes, 100% faster than 50 LPM and 250% faster than 28.3 LPM instruments.



Easy to Operate:

- Touchscreen programming with adjustable LCD
- Performs ISO 14644 and FS 209 E calculations
- Equipped with integrated thermal printer
- Includes APCOne Download Utility Software
- Supports 21 CFR Part 11 (optional)
- Biotest APC Facility Monitoring System Software available

Reliable and Accurate Performance:

- Self diagnostics tests include built in flow meter and battery monitor
- Meets JIS for counting efficiency
- User-defined audio alerts
- Extended laser life

System Description:

- World's first portable particle counter to sample at 100 LPM
- Also available at flow rates of 75 LPM and 50 LPM
- Custom size channels (0.3 μm to 100 μm)
- Optional removable/rechargeable Lithium-ion battery
- Continuous monitoring with mains power
- Displays total particles, particles/m³, particles/ft³ or particles/L
- Stores up to 1,000 user-defined sample locations
- Optional sensors to monitor temperature, relative humidity, pressure differential and air velocity
- Disinfectant resistant aluminum coating
- Available in stainless steel for easier sterilization
- Includes isokinetic probe with tripod
- RS232 and USB client connections



Optional Lithium-ion battery (not shown)

Integrated printer reports raw data, ISO 14644 and FS 209 E calculations

Touchscreen keypad for easy data entry

Available in stainless steel and coated aluminum housing

Sensors, RS232 and USB communication ports

Isokinetic probe with tripod