Biotest HYCON

High Speed Portable Airborne Particle Counter

Time and Cost Savings Comparison

# of 1 m³ samples/day	Sample Time (minutes) 100 LPM instrument	50 LPM instrument	Annual Savings with 100 LPM vs 50 LPM **Minutes	**Hours	**Cost	**Annual Cost Savings 100 LPM vs 28.3 LPM
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)
Channel Sizes	2 or 6 channel, customizable from 0.3 µm to 100 µm *
Coincidence Loss	<5% at 14x10⁶ particles/m³ (<5% at 400,000 particles/ft³)
Laser	Extended-life laser diode
Zero Count	1 count or less in 5 minutes (JIS)
Display Max	14,999,999 counts (total particles, particles/m³, particles/L or particles/ft³)
Data Storage	1,000 samples
Location Names	1,000 sample location names (22 alpha numeric characters)
Display	Backlit LCD with touch screen Available in English, Spanish, French or German *
Optional Environmental Sensors	Relative humidity (±5%) Temperature (±2˚C) Differential pressure (±3%) Air velocity (±5%) *
Com Ports	RS 232, USB (RS 485: optional)
Calibration	Calibrated to NIST traceable standards
Power Req	100-240 V A/C, 50-60 Hz
Pump	Rated for continuous use
Battery Packs	Long life lithium-ion battery (optional)
Battery Operating Time	• 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)
Dimensions	30 x 30 x 20 cm (12 x 12 x 8 in)
External Surface	Available in stainless steel and coated aluminum housing
Weight	10.2 kg (22.5 lbs) - stainless steel 8.2 kg (18 lbs) - aluminum 1.5 kg (3.5 lbs) - optional battery
Printer	Built-in thermal printer
Reports	Raw data, ISO 14644-1, FS209E
Operating Environment	Temperature: 10˚- 40˚C (50˚-105˚F) Relative humidity: 0 - 90% (noncondensing)

* Specify at time of order

Accessories

- 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

APC52.1

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From Nature for Life

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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
- Extented 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