

Air Trace[®]

Environmental Air Sampler



The Air Trace[®] Environmental Air Sampler is a state of the art slit-to-agar microbial air sampler. The sampler rotates a 150mm agar plate 360° while maintaining the agar plate at a fixed distance from a precision cut slit. This is a critical feature to ensure maximum validated recovery of impacted organisms on the agar surface. After incubating the plate, growth on the medium can be interpreted to exactly when the contamination occurred during sampling, enabling the operator to pinpoint a particular event during a process or procedure that may have raised the bio-burden to above acceptable limits. The user sets the rotation speed of the agar plate, as well as the percentage of the plate area exposed, thus ensuring the flexibility to monitor virtually any process for biocontamination.

The airflow through the instrument is automatically controlled at 1CFM (28.3 LPM). The built-in software automatically stores user ID and unique location information for each run, and an RS232 serial printer can be used to download data. A specially-designed version of the instrument, the Air Trace Compressed Gas, is available for the monitoring of compressed gases.



BENEFITS

- Highly effective slit-to-agar capture method, a trusted and tested technology
- Larger surface area (150 mm plate) for more statistically accurate results
- Ability to pinpoint and isolate exact moment of contamination due to precision controlled plate rotation
- Third-party validated by the Center for Applied Microbiology and Research (CAMR) to meet ISO 14698-1: Biocontamination Control of Cleanrooms and Associated Controlled Environments
- Compliant with cGMP and GAMP[®] regulatory requirements
- 1.0 CFM (28.3 LPM) airflow is regulated for optimum flow rate during sampling enabling 1 m³ sample volume in 35 minutes, 20 seconds
- HEPA filtered exhaust prevents contamination of the cleanroom or clean zone
- Automated plate height adjustment and control during sampling process
- User-adjustable plate rotation speed and plate exposure percentage
- Direct replacement for older interchangeable drive-motor slit-to-agar impact samplers
- Easy data download via RS232 serial printer (optional)

APPLICATIONS

- Pharmaceutical cleanroom monitoring for presence of microorganisms
- Monitoring of aseptic filling areas, laminar flow workstations, and isolators (with optional remote probe assembly)
- Compressed gases monitoring (with Air Trace Compressed Gas version)
- Microbiological monitoring of surgical suites or operating rooms

Without measurement, there is no control.

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specifications

Agar Requirements

Plate size	145 ± 5mm diameter (75 mL fill)
Slit to agar distance	2.5 ± 0.5mm (automatically adjusted by instrument during sampling)
Min/max agar depth	5mm / 9mm

Air Sampling Parameters

Flow rate	1 CFM (28.3 L/min) + 5 / - 0% tolerance
Flow rate control	Automatic
Sample time	Adjustable 2 minutes - 5 hours (100% plate at 5 hours)
Min/max rotation speed	Min = 1 rev/5 hours / Max = 1 rev/2 minutes
Percent of plate exposed	User adjustable up to 100%
Sample exhaust	HEPA filtered
Maximum gas pressure	5 bars (70 psi) (Compressed Gas version only)

Software and Data

Languages	English, French, Spanish, German, Italian, and Portuguese selectable via set-up screen
Display	4 lines x 20 characters each, LCD
Data output	Sampler ID, run number, date, start time, user ID, location ID, run time, % plate used, volume of air sampled, and end time
Communication	RS232C to serial printer (optional printer available)

Physical/Environmental

Dimensions (h, w, d)	9.4 x 10.2 x 15.4 inches (24 x 26 x 39 cm)
Weight	Air Trace Environmental: 28 lbs (13 kg), Air Trace Compressed Gas: 20 lbs (9 kg)
Operating conditions	Temperature: 50-95°F (10-35°C); Humidity: 10-85% (non-condensing)
Power	100-240VAC/50-60Hz, 200W; (Air Trace Compressed Gas Only) 120VAC/60Hz, 200W; (Air Trace Environmental-120) 220-240VAC/50Hz, 200W; (Air Trace Environmental-240) 100VAC/50Hz, 200W; (Air Trace Environmental-100)

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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.



Air Trace Compressed Gas



Registration applies to the Boulder, Colorado facility.

AUTHORIZED REPRESENTATIVE



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