

# Air Trace<sup>®</sup>

Environmental Air Sampler



The Air Trace<sup>®</sup> Environmental Air Sampler is a state-of-the-art slit-to-agar microbial air sampler.

The sampler rotates a 150 mm agar plate up to 360° while maintaining the agar plate at a fixed distance from a precision cut slit. This critical feature ensures maximum validated recovery of impacted organisms on the agar surface.

After incubation, growth on the medium can be correlated to the exact time 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 1 CFM (28.3 LPM). The built-in software automatically stores user ID and unique location information for each run, and an RS-232 serial printer can be used to download data.

An Air Trace Compressed Gas configuration is available for the monitoring of compressed gases.

## BENEFITS

### Fully Compliant

- Reference method for viable air monitoring in compendia
- Follows ISO standardization
- Compliant with cGMP and GAMP<sup>®</sup>

### Precise Results

- Direct correlation of deviations to the time of measurement
- Statistically more accurate compared to 90 mm dishes
- Compatible with all commercially available petri dish agar filling configurations

### Reduced Risk of External Errors

- No risk of environmental contamination from air exhaust
- Optimal recovery of microorganisms – reduced false negative risk
- Reduced operator dependency due to data download and print option

## FEATURES

- ISO 14698-1 certified instrument with highly effective slit-to-agar capture
- 1.0 CFM (28.3 LPM) airflow with HEPA filter equipped air outlet
- Direct Time to Sample Correlation during 35 ‘ 20 “ sampling with adjustable rotation speed and plate exposure percentage
- Adjustable height and diameter mechanism for versatile Petri dish compatibility for 150 mm plates
- Data export via RS-232 serial bus or optional printer

## APPLICATIONS

- Pharmaceutical cleanroom monitoring for presence of microorganisms
- Suitable for ISO 8573 testing
- Monitoring of aseptic filling areas, laminar flow workstations, and isolators (with optional remote probe assembly)
- Microbiological monitoring of surgical suites or operating rooms
- Compressed gases monitoring (with AirTrace Compressed Gas version)

### Agar Requirements

Plate size	145 ± 5 mm diameter (75 ml fill)
Slit to agar distance	2.5 ± 0.5 mm (automatically adjusted by instrument during initial sampling)
Agar depth	Min. = 5 mm; Max. = 9 mm

### Air Sampling Parameters

Flow rate	1 CFM (28.3 LPM) ± 10% tolerance
Flow rate control	Automatic
Sample time	Adjustable: 2 minutes to 5 hours (100% plate at 5 hours)
Rotation speed	Min. = 1 revolution/5 hours; Max. = 1 revolution/2 minutes
Percent of plate exposed	User-adjustable: Up to 100%
Sample exhaust	HEPA filtered
Gas pressure	Max. 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	RS-232C to serial printer (optional printer available)

### Physical Environment

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

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#### HEADQUARTERS

5475 Airport Blvd  
Boulder, Colorado 80301 USA  
T: +1 303 443 7100, +1 800 238 1801

Instrument Service & Support  
T: +1 800 557 6363  
Customer Response Center  
T: +1 877 475 3317  
E: info@pmeasuring.com

#### GLOBAL OFFICES

BRAZIL  
T: +55 11 5188 8227  
E: pmsbrazil@pmeasuring.com

CHINA  
T: +86 21 6113 3600  
E: pmschina@pmeasuring.com

FRANCE  
T: +33 (0)6 82 99 17 98  
E: pmsfrance@pmeasuring.com

GERMANY  
T: +49 6151 6671 632  
E: pmsgermany@pmeasuring.com

ITALY  
T: +39 06 9053 0130  
E: pmsrl@pmeasuring.com

JAPAN  
T: +81 3 5298 8175  
E: pmsjapan@pmeasuring.com

KOREA  
T: +82 31 286 5790  
E: pmskorea@pmeasuring.com

MEXICO  
T: +52 55 2271 5106  
E: pmsmexico@pmeasuring.com

NORDIC  
T: +45 707 028 55  
E: pmsnordic@pmeasuring.com

PUERTO RICO  
T: +1 787 718 9096  
E: pmspuertorico@pmeasuring.com

SINGAPORE  
T: +65 6496 0330  
E: pmsingapore@pmeasuring.com

SWITZERLAND  
T: +41 71 987 01 01  
E: info@cas.ch

TAIWAN  
T: 886-3-5525300 Ext: 301  
E: pmstaiwan@pmeasuring.com

UNITED KINGDOM  
T: +44 1684 581 000  
E: pmsemea@pmeasuring.com