

# Air Trace<sup>®</sup>

Environmental Air Sampler

Without measurement there is no control.



The Air Trace 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

- 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<sup>®</sup> regulatory requirements
- 1.0 CFM (28.3 LPM) airflow is regulated for optimum flow rate during sampling, enabling 1 m<sup>3</sup> sample volume in 35 minutes, 20 seconds
- HEPA filtered exhaust prevents contamination of the cleanroom or clean zone from the sample exhaust
- Automated plate height adjustment and control during sampling process
- User-adjustable plate rotation speed and plate exposure percentage
- Direct replacement for older drive-motor slit-to-agar impact samplers
- Easy data download via RS-232 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

# Air Trace®

## Environmental Air Sampler

specifications

### Agar Requirements

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

### Air Sampling Parameters

<b>Flow rate</b>	1 CFM (28.3 LPM) ± 10% tolerance
<b>Flow rate control</b>	Automatic
<b>Sample time</b>	Adjustable: 2 minutes to 5 hours (100% plate at 5 hours)
<b>Rotation speed</b>	Min. = 1 revolution/5 hours; Max. = 1 revolution/2 minutes
<b>Percent of plate exposed</b>	User-adjustable: Up to 100%
<b>Sample exhaust</b>	HEPA filtered
<b>Gas pressure</b>	Max. 5 bars (70 psi) (Compressed Gas version only)

### Software and Data

<b>Languages</b>	English, French, Spanish, German, Italian, and Portuguese selectable via set-up screen
<b>Display</b>	4 lines x 20 characters each, LCD
<b>Data output</b>	Sampler ID, run number, date, start time, user ID, location ID, run time, % plate used, volume of air sampled, and end time
<b>Communication</b>	RS-232C to serial printer (optional printer available)

### Physical/Environmental

<b>Dimensions (h, w, d)</b>	9.4 x 10.2 x 15.4 in (24 x 26 x 39 cm)
<b>Weight</b>	Air Trace Environmental: 28 lb (13 kg) Air Trace Compressed Gas version: 20 lb (9 kg)
<b>Operating conditions</b>	Temperature: 50 – 95 °F (10 – 35 °C); Humidity: 10 – 85% (non-condensing)
<b>Power</b>	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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