TCR TECORA
POLLUTION CHECK

OCCUPATIONAL HEALTH

OUTDOOR AIR QUALITY

Compliant with:
ISO 10312-2019,
AFNOR X46-010,
OSHA 1910.1001 App B,
EPA 40 CFR
Appendix A to Subpart E of Port 763

Asbestos Sampler
BRAVO ASBESTO

BRAVO **ASBESTO** is a portable constant adjustable flow sampler dedicated to the sampling of airborne asbestos fibers.

Current legislation provides that in relation to work activities that may entail, for workers exposure to asbestos, such as maintenance, removal of asbestos or asbestos-containing materials, disposal and treatment of related waste, remediation of areas concerned, the employer shall carry out periodically measure the concentration of asbestos fibers in the air of workplace.

BRAVO **ASBESTO**, thanks to the possibility of adjusting the sampling flow over a wide range, can be used for the sampling of asbestos fibers for subsequent analysis by SEM and for sampling total fibers for subsequent analysis by MOCF, in accordance with AFNOR, ISO, OSHA and US EPA standard.

It is possible to equip the instrument with an optional internal battery, which allows sampling even in the absence of power supply, and a Docking Station to control battery charge and operating parameters even remotely.

APPLICATIONS

- Remediation site
- Ophiolite quarries
- Former asbestos mines
- Waste management plants
- Storage/coverage asbestos site

TECHNICAL SPECIFICATIONS

- ✓ Flow range: from 1 to 25 l/min
- ✓ Flow range (optional): from 0,5 to 30 l/min
- ✓ Measure resolution on-screen: 0,1 L
- ✓ Pump type: single head diaphragm
- ✓ Volumetric counter accuracy $< \pm 1\%$
- ✓ Power supply: 230 Vac – 12 Vdc (optional internal battery)
- ✓ Dimensions*: 47h x 44l x 28w
- ✓ Weight: 12 Kg (without battery)
- ✓ Protection grade: IP65

* Only for models with battery

INNOVATION MADE IN ITALY

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Data download via USB drive

The outer case allows easy decontamination of the instrument after sampling, preventing the transfer of any fibers.

The instrument can be equipped with an internal 2 kg battery pack, providing 10 hours of continuous operation at 10 L/min.

The lightweight batteries are made with the latest-generation LiFePO4 technology.
The charger is built into the instrument.

Battery life (for battery-powered models):

- Operating time: 10 hours at 10 L/min with a 25 mm polycarbonate membrane;
- Operating time: 30–42 hours at 8.5 L/min with a 37 mm 0.45 μm membrane;
- LiFePO4 battery with a 6–8 hour charging time;
- Integrated BMS (Battery Management System);
- Option to connect an external fan.

Operating features and main functionalities:

- Sampling report (duration, sampling volume, dates, etc.);
- Quiet operation (<50 dB) with a 5'' touchscreen display;
- Manual or scheduled start (up to 10 days of sampling);
- Dynamic flow display and hour-counting system;
- Continuous sampling even during power outages;
- Integrated telescopic support;
- Lightweight, easily transportable structure with wheels and retractable handle;
- Electrical class (e.g., "Class II – Extra-low safety voltage 12 V="");
- Protection rating IP65 (not suitable for immersion).

Environmental and usage data:

- Operating temperature range (e.g., –10 °C to +40 °C);
- Atmospheric pressure/altitude range: operational up to 2000 m, 750–1060 mbar;
- Robust, impact-resistant casing, made with rotomolded construction and easily decontaminable with water.

Traceability and connectivity:

- User access with password for configuration levels;
- Calibration/user logs with configurable data recording frequency;
- Read-only data review (for traceability);
- Communication via modem for remote control (in addition to USB);
- Bidirectional data transfer function (PC ↔ instrument).

CODING

Description	References
Bravo Asbesto	AA99-000-0051SP
Bravo Asbesto with internal battery	AA99-000-0052SP
Bravo Asbesto H (Range: 0,5 - 30 l/min)	AA99-000-0055SP
OPC Sensor - PM_{10}, $PM_{2,5}$, PM_1 + 24 Size Classes	AA99-100-0000SP
Docking Station	AA99-200-0000SP

The entire TCR TECORA sampler series has been designed to connect to an innovative automatic control system called the Docking Station. This system allows "intelligent" battery charging, ensuring long battery life based on work cycles.
It also enables automatic instrument monitoring to check measurement parameters and perform a complete device diagnostics.

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