Alveolar Thoracic Inhalable Aerosol Sensor

C.A.Th.I.A.

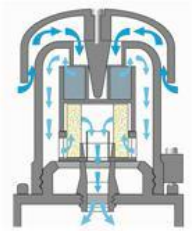
Principle

This C.A.Th.I.A sampling head enables personal ambient pollution sampling for measurement or fibers counting. It can accept three selectors for different aerosol fractions: alveolar, Inhalable or thoracic.
The fractions collected are in accordance with EN 481, ISO 7708 and FD CEN / TR 15230 (respirable, thoracic and alveolar aerosol fractions sampling). Its perfect capture efficiency of the chosen fraction eliminates the background noise generated by undesirable large particles.

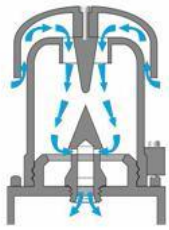
Due to the homogeneous deposition of aerosols on the filter section, laboratory analysis is facilitated. C.A.Th.I.A is used with 4 sections cassettes. The 2 middle rings contain the filter is inserted in the sampling head, whereas the two covers are used for transport. This avoids any filter manipulation during installation and filter recovery.
As part of the sampling of asbestos fibers in the flocked premises, C.A.Th.I.A. equipped with its thoracic selector is in accordance with standard NF X 43-050. The required flow rate of 7 L /min reduces the duration of the discharges levies.

Main characteristics :

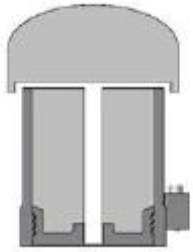
- Modular architecture thanks to three selectors for particulate fractions
- 3 selectors available
- Omnidirectional aspiration
- Ergonomic and compact



Alveolar selector



Thoracic selector



Inhalable selector

Technical characteristics

Flow	Depends on the selector: - Alveolar selector: respirable alveolar fraction with a flow rate of 10 L / min - Inhalable selector: inhalable fraction with a flow rate of 10 L / min - Thoracic selector: thoracic fraction with a flow rate of 7 L / min
Weight	1 kg
Dimensions	230 x 50 mm

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