



Thoracic, Inhalable, Alveolar Aerosol Sampler

C.A.Th.I.A.

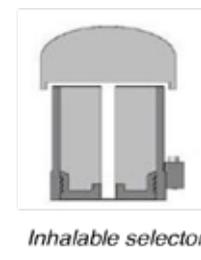
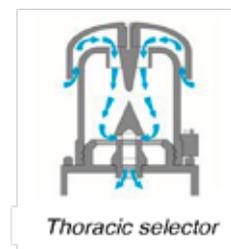
MAIN FEATURES

- Modular architecture with interchangeable selector for particulate fractions.
- 3 selectors available.
- Omnidirectional aspiration.
- Ergonomic and compact.
- Durable (made in inox).



TECHNICAL CHARACTERISTICS

Flowrate	depends on the selector installed:
	- Alveolar Selector: respirable alveolar fraction with a flowrate of 10 L/min
	- Inhalable Selector: inhalable fraction with a flowrate of 10 L/min
	- Thoracic Selector: thoracic fraction with a flowrate of 7 L/min
Weight	1 kg
Dimensions	230 x 50 mm



PRINCIPLE

This static device provides for the collection of ambient pollution for the purpose of a mass analysis or counting of fibers. C.A.Th.I.A., Thoracic Inhalable Alveolar Aerosol Sampler, developed by the INRS*, can accept three selectors (alveolar, inhalable, thoracic) of the individual dust sampler CIP10.

The collected fractions compliance to standards EN 481, ISO 7708 and FD CEN/TR 15230 (Guidance for sampling of inhalable, thoracic and respirable aerosol fractions).

Its perfect efficiency to collect the chosen fraction allows to eliminate the background noise generated by undesirable large particles.

The deposit of the aerosols is homogeneous throughout the filter's section. Therefore, the laboratory analysis will be easier. The filter is held between two rings (cassette spacers) which are matched with the cassette covers for their transport. The operator can avoid any manipulation of the filter during the filter's installation and retrieval.

In the context of sampling asbestos fibers in coated areas, C.A.Th.I.A.-T with thoracic selector is compliant to the standard NF X43-050.

The required flow rate of 7 l/min reduces the duration of the full collection.

*INRS: National Institut for Research and Security (located in France)

