

SCINTILLATING FLASKS

○ FOR SPOT MEASUREMENTS OF RADON VOLUMIC ACTIVITY

□ APPLICATIONS

- Monitoring of work environments.
- Ventilation monitoring in underground works.
- Prospecting.
- Radium 226 analysis in water by emanation.



- Combined **Radon** sampling and measuring unit.
the scintillation flask allows the sampling of the volume of air to be studied.
- Radon-loaded air sampling is performed due to the partial vacuum previously generated in the flask.
- Zinc sulphide coating converts alpha emissions due to radon into photons.
- The counting of these photons is performed by a photomultiplier associated to a counting chain.
- Accessories :
 - Vacuum pump.
 - Counting chain fitted with a photomultiplier.
 - A needle fitted with a filter.

Features



SCINTILLATING FLASKS

FEATURES

FIS125

CONTAINER :

Pyrex glass externally coated by polyethylene.
Useful volume : 125 cm³.
Closed by a rubber stopper (self closing).

METROLOGICAL FEATURES :

- Sensitivity :
1,35 10⁻² event.min.⁻¹ per Bq.m³.
- Background noise : less than 1 count per minute.
- Counting efficiency : 60%.
- Dimensions :
 - Diameter : 62 mm
 - Height : 115 mm
 - Weight : 80 g

FIS500

CONTAINER :

Pyrex glass externally coated by polyethylene.
Useful volume : 500 cm³.
Closed by a rubber stopper (self closing).

METROLOGICAL FEATURES :

- Sensitivity:
5,40 10⁻² event.min.⁻¹ per Bq.m³.
- Background noise : less than 2 count per minute.
- Counting efficiency : 60%.
- Dimensions :
 - Diameter: 105 mm
 - Height: 180 mm
 - Weight: 210 g

ACCESSORIES

RINSING UNIT

- combined apparatus used to put under vacuum and rinse the FIS 125 and FIS 500 scintillating flasks.

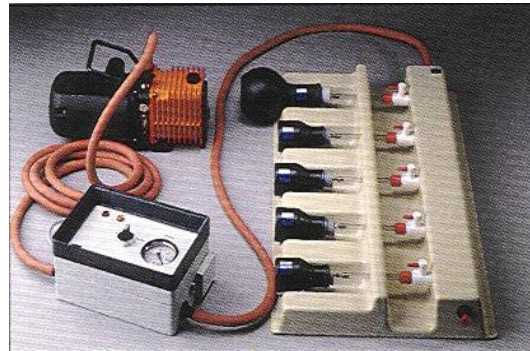
- The apparatus is made up of three parts :

- a positioning cradle,
- a vacuum pump,
- a sequencer.

FLAK NEEDLES (see photo on previous page)

SPARE STOPPERS

(see photo on previous page).



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