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

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SCINTILLATING FLASKS

F E A T U R E S

FIS 125

CONTAINER

Pyrex glass externally coated by polyethylene
Useful volume: 125 cm^3
Closed by a rubber stopper (self closing)

METROLOGICAL FEATURES

Sensitivity: 1,35.10 $^{-2}$ event.min^{-1} per Bq.m^{-3}
Background noise: less than 1 count per minute
Counting efficiency: 60 %
Dimensions:
Height : 115 mm
Diameter: 62 mm
Weight: 80 g

FIS 500

CONTAINER

Pyrex glass externally coated by polyethylene
Useful volume: 500 cm^3
Closed by a rubber stopper (self closing)

METROLOGICAL FEATURES

Sensitivity: 5,40.10 $^{-2}$ event.min^{-1} per Bq.m^{-3}
Background noise: less than 1 count per minute
Counting efficiency: 60 %
Dimensions:
Height : 180 mm
Diameter: 105 mm
Weight: 210 g

A C C E S S O R I E S

RINSING UNIT
FLASK NEEDLES
STOPPERS

- **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.
- **FLASK NEEDLES** (see photo on previous page)
- **SPARE STOPPERS**
  (see photo on previous page)