

# PARTICULATE FALLOUT AND PRECIPITATION COLLECTOR

## *i*NNOVATION NILU

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NILU, norwegian institute for atmospheric research, developed instruments to collect representative samples of wet and dry deposition for subsequent laboratory analysis.

Two collectors are available :

- The particulate fallout collector
- The precipitation collector

The design and development of the NILU collectors are based on an evaluation of similar equipment in use in various countries. Factors such as construction materials, ease of handling and transportability determined the shape and dimensions of the collectors.

Its design is according to the recommendations of ISO as the present use of materials and procedures permit (ISO/DIS4222.2).

The mounting stand can be used for both collector types.

The stand is adjustable in height so that the collectors can always be adjusted to the prescribed height above ground (for instance when the snow depth varies), and to facilitate the changing of collectors.

The Precipitation Collector is not designed to be used in freezing conditions. During freezing conditions, when the evaporation losses are low, the Fallout Collector can be used as precipitation collector as well.



Particulate fallout collector



Precipitation collector

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### TECHNICAL SPECIFICATIONS

MATERIAL	- High density polyethylene for the collectors - Stainless steel for the mounting stand
DIAMETER OF COLLECTING SURFACE	20 cm
COLLECTOR HEIGHT	40 cm
HEIGHT ABOVE GROUND, ADJUSTABLE	1,7 to 2,6 m

The complete particulate fallout collector consists of:

- 1 fallout collector with lid
- 1 steel ring
- 1 telescope
- 1 basket
- 1 ground spike

The complete precipitation collector consists of:

- 1 precipitation collector
- 1 steel ring
- 1 2,5 l bottle
- 1 screw cap
- 1 bugsieve
- 1 funnel, bottle adapter
- 1 O-ring
- 1 telescope
- 1 basket
- 1 ground spike



E C O M E S U R E

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