

The EK Sequential Air Sampler

The EK Sequential Air Sampler collects aerosol and gas in ambient air in a filter pack mounted in a filter holder.

Funnels protect the filter pack against direct sunlight, rain and snow, and prevent large particles from reaching the aerosol prefilter.

The EK Sequential Air Sampler has two parallel sampling lines, each consisting of a funnel with a filter pack, which are activated sequentially. At the end of every sampling period the exposed filter pack must be replaced by an unexposed one.

The control unit and the pump should be placed in a room with electrical connections which must be grounded. The air intake is usually mounted on a rack which is fixed to the outdoor wall when ambient air is measured. The tubes from the funnel should be led through the wall to the control unit. The distance from the ground to the funnel is usually 2-5 m.



EK Sequential Air Sampler – funnels with control unit.

Additional information

The EK Sequential Air Sampler is designed for 220 V/50 Hz.

Filters with 47 mm diameter fit into the the [NILU Filter holder system](#) – designed for sampling of particles and gaseous compounds, or the [NILU Filter holder system – Aluminium](#), which is designed for sampling microplastics and other compounds sensitive to polycarbonate.

The air volume is 12-16 l/min depending upon the filter material and type used.



Funnels, to protect the filter holder containing the filter pack.



Filter holder containing filter pack, to be mounted in the funnel.