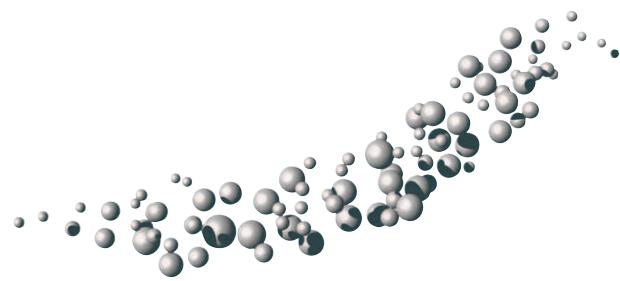


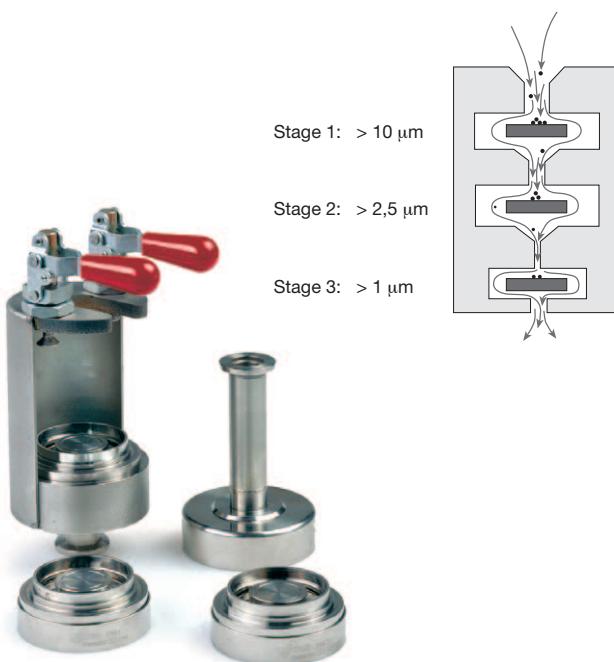
# Dekati® PM10 Impactor



Dekati® PM10 impactor is a device to measure PM10, PM2.5 and PM1 mass concentrations of airborne particles. The impactor size classifies particles into four different size fractions and is available with two different sample flow rates: 10 or 30 l/min. The Dekati® PM10 impactor is also available with a simpler 2-stage setup where one of the impactor stages is removed from the instrument.

The Dekati® PM10 impactor's easy to use and simple design makes it an ideal choice for gravimetric or chemical analysis of PM. The particles are collected on 25 mm diameter collection substrates and weighed before and after the measurement to obtain gravimetric size distribution of the sample particles. Particles smaller than 1  $\mu\text{m}$  are collected on a 47 mm filter.

The Dekati® PM10 impactor is made of stainless steel and can be heated up to 200 °C. Its applications include indoor and outdoor air quality monitoring, combustion aerosol studies and industrial process control. The Dekati® PM10 impactor fills all requirements set in the ISO23210 standard for measuring PM10 and PM2.5 emissions from stationary sources.



Stage 1: > 10  $\mu\text{m}$

Stage 2: > 2,5  $\mu\text{m}$

Stage 3: > 1  $\mu\text{m}$

## Specifications

Nominal air flow	10 or 30 l/min
Number of size classes	3 or 4, depending on the set-up
Size fractions	> 10 $\mu\text{m}$ , 10-2,5 $\mu\text{m}$ , 2,5-1 $\mu\text{m}$ , < 1 $\mu\text{m}$ PM10, PM2,5 and PM1,0 mass concentrations
Particle collection area	Ø 25 mm
Maximum temperature	200 °C
Weight	2,4 kg
Dimensions	Ø 76 x 180 mm
Material	Stainless steel (AISI 316)

## Accessories

Spare set of impactor collection plates for easy reloading.



### Other accessories include:

- Impactor heating jacket for heating the impactor up to 200 °C
- Pump including a flow control system
- Aluminium collection foils, Ø25 mm
- Polycarbonate collection foils, Ø25 mm
- Dekati collection substrate spray
- Sampling lines for emission measurements
- Sampling inlets for air quality measurements

For more information, please contact: [sales@dekati.fi](mailto:sales@dekati.fi)



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Dekati Ltd. is specialized in the design and manufacture of innovative fine particle measuring and sampling devices. Since its founding in 1994, Dekati has become the technological market leader in producing fine particle measurement instrumentation for various applications and hundreds of customers. 

# Dekati® PM10 Impactor

PM10, PM2.5 and PM1  
mass concentrations

Air quality measurements  
Combustion source sampling  
According to ISO23210

