

## Particle Samplers

Particle samplers are designated to collect particle (and gas) samples for later laboratory evaluation.

The main categories are:

- Ambient Air Samplers
- Stack Gas Emission Samplers
- Pulverised Fuel Samplers
- Fly Ash Samplers
- Raw Coal Samplers
- Working Area – Indoor Samplers

### Ambient Air Samplers

The reference standard for sampling of particulate matter is EN 12341:2014. This is the reference gravimetric method for the determination of the mass concentration of suspended particulate matter PM10 or PM25.

The system allows to sample particulate matter in outdoor area with an automatic filter exchange.



Shelter mounted samplers for parallel sampling of both PM10 and PM2.5 fractions are also available

Special category of samplers is dedicated to long term sampling of dioxins, furanes and metals.



## **Stack Gas Emission Samplers**

The sampling is usually dedicated to monitor:

- **Particle**

The reference standard for sampling of dust in stacks is EN 13284-1:2003.

The isokinetic sampling systems allow to sample in ducts of any size and type (vertical/horizontal) the particles, even in presence of water droplets. Fractional PM10/PM2.5 sampling is also possible.

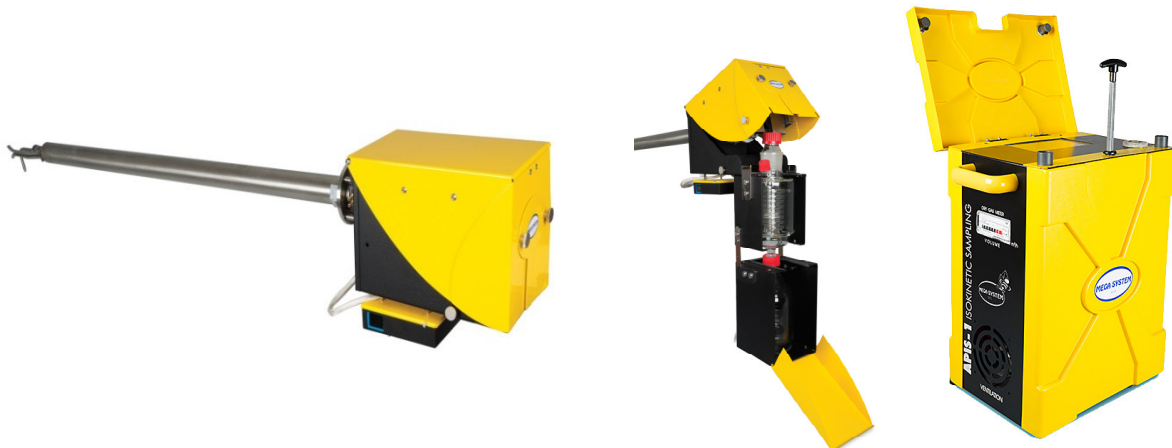
- **Metals**

The reference standard for sampling of metals in stacks is EN 14385:2004.

The samplers are used for determination of the total emission of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V. The system allows to sample heavy metals in any duct.

- **Dioxins, Furans**

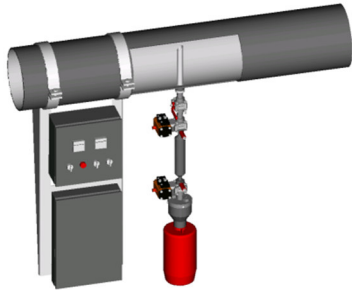
The reference standard for sampling of micro-pollutants in stacks is EN 1948-1:2006 - Stationary source emissions, determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs. The system allows to sample micro-pollutants (IPA, dioxins, furans) in ducts.



## **Pulverised Fuel Samplers**

Continuous isokinetic extraction of samples for laboratory testing operated by one person. Four sampling nozzles rotating in concentric circles.





### Fly Ash Samplers

Collection of dust samples in dust transport pipes with a pneumatic transport.  
Fly ash sample are used for laboratory analysis.

### Raw Coal Samplers

Extracts representative samples over selected period of required weight and particle size in accordance to ISO and ASTM norms.



### Working Area – Indoor Samplers

Battery powered personal sampling pumps are dedicated for monitoring of gases requesting typically 20 – 500 cc/min flow setting, and of particles requiring 500 – 5000 cc/min flow setting.

GilAir Plus pumps with a certified 20 – 5000 cc/min flow range can be used for both applications. This device means in fact two pumps in one. High backpressure (especially useful for asbestos sampling), intuitive menu and broad range of accessories are further advantages of this device.



With detailed information on solutions of your interest we are gladly available on our contact:

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