



PERSONAL SAMPLING

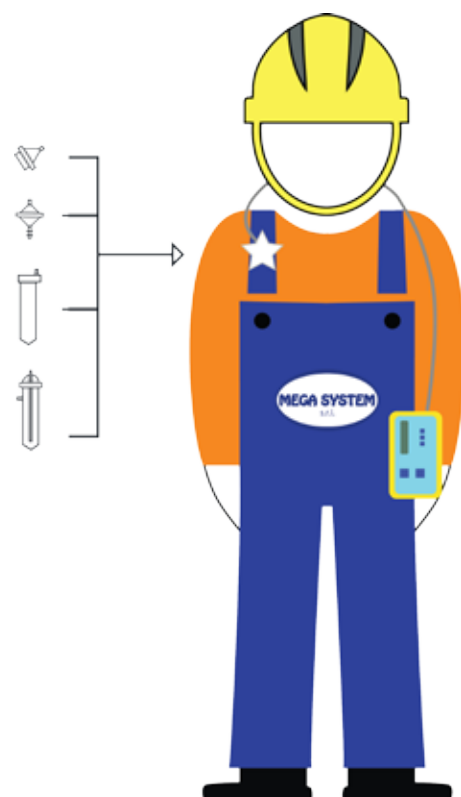
UNI EN 481:1994

The reference standard for personal sampling is UNI EN 481:1994. "Workplace atmospheres. Size fraction definitions for measurement of airborne particles".

The system allows to sample on a personal level any type of substance (solid, liquid or volatile) differentiating the type of sensor.

LEGEND

- 1. Personal sampler
- 2. Filter holder
- 3. Conical nozzle for breathable dusts
- 4. IOM
- 5. Cylindrical nozzle for asbestos fibres
- 6. Cyclone for breathable dusts
- 7. Vial holder for volatile organic compounds (VOCs)
- 8. Accessories for instrument calibration





FIXED STATION

UNI EN 481:1994

The reference standard for indoor air sampling is UNI EN 481:1994.

“Workplace atmospheres.

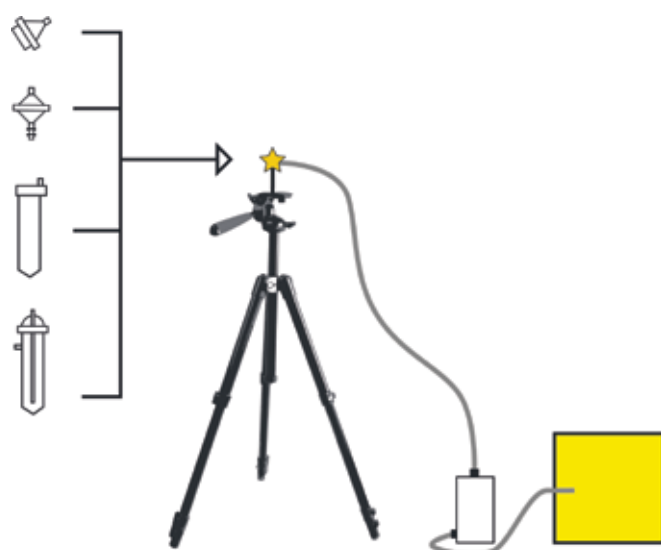
Size fraction definitions for measurement of airborne particles”.

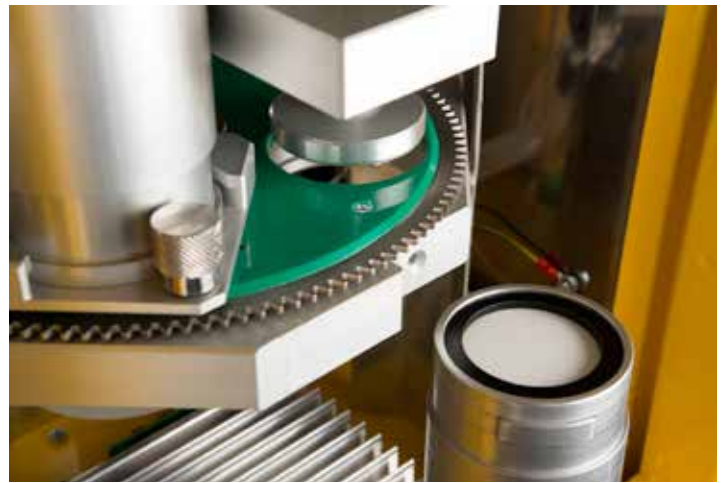
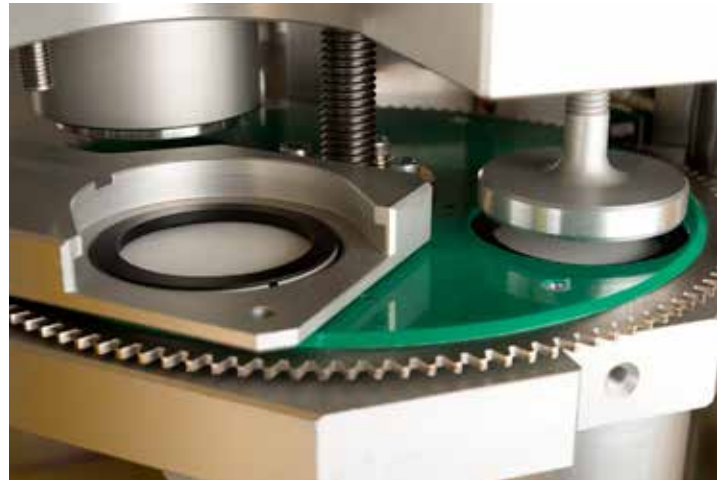
The system allows to sample in an indoor confined area any type of substance (solid, liquid or volatile) differentiating the type of sensor.

LEGEND

1. Life 1 One
2. Filter holder
3. Conical nozzle for breathable dusts
4. Cylindrical nozzle for asbestos fibres
5. Vial holder for volatile organic compounds (VOCs)
6. Scrubbers for acids
7. Telescopic stand
8. Support with gripper for stand

2 MEGA SYSTEM





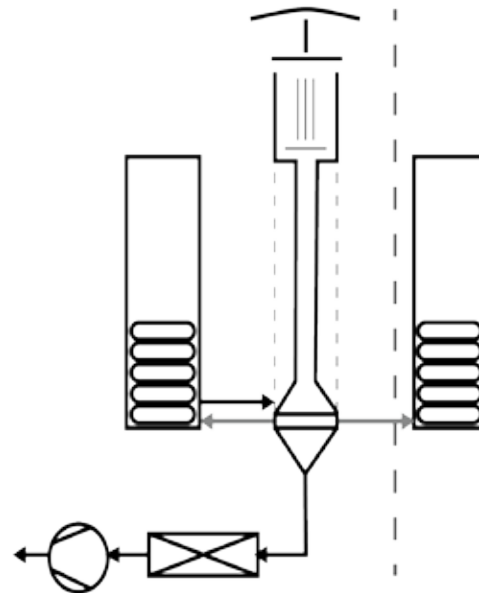
PARTICULATE MATTER

UNI EN 12341:2014

The reference standard for sampling of particulate matter is UNI EN 12341:2014.

"Ambient air - Reference gravimetric method for the determination of the mass concentration of suspended particulate matter PM_{10} or $PM_{2.5}$ "

The system allows to sample particulate matter in an outdoor area.



1



2



3



4



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6



DUSTS

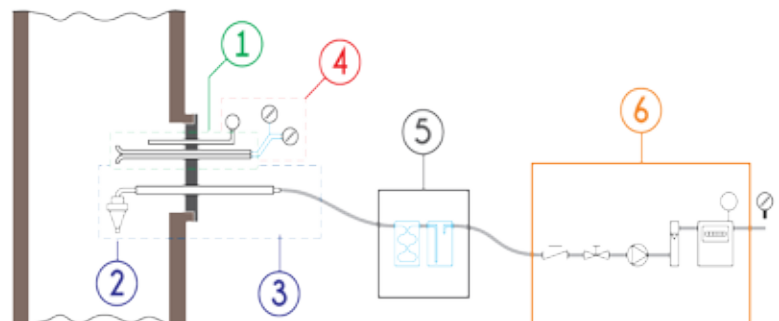
UNI EN 13284-1:2003

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

“Stationary source emissions.

Determination of low range mass concentration of dust. Manual gravimetric method.”

The system allows to sample in flues of any size and type (vertical/horizontal) the total dusts in the presence of little condensation.



LEGEND

- 1. Darcy
- 2. Conical nozzle
- 3. Filter holder
- 4. Isocheck SRB
- 5. Artick LT
- 6. Lifetek 55 XP-R

1



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DUSTS

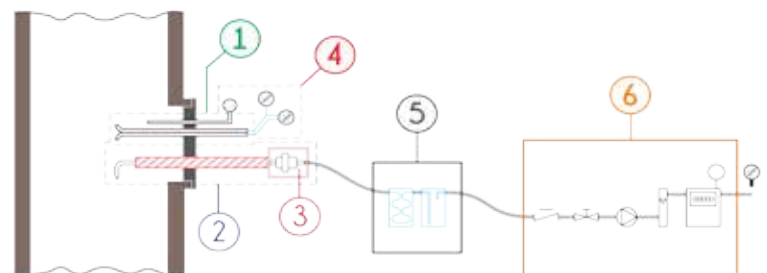
UNI EN 13284-1:2003

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

“Stationary source emissions.

Determination of low range mass concentration of dust. Manual gravimetric method.”

The system allows to sample in flues of any size and type (vertical/horizontal) the total dusts in the presence of a high amount of condensation.



LEGEND

- 1. Darcy
- 2. Thermo DL
- 3. Filter holder
- 4. Isocheck TSB
- 5. Artik XP
- 6. Lifetek 55 XP-R

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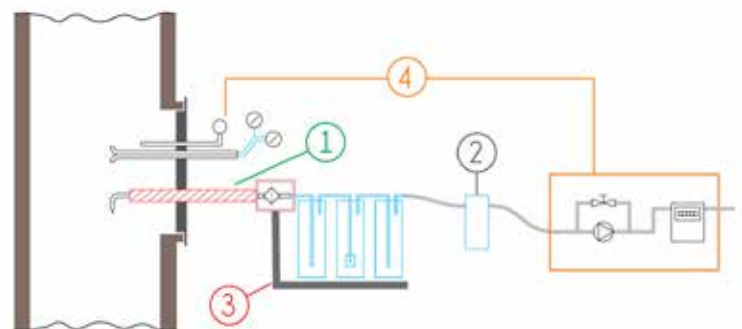
METALS

UNI EN 14385:2004

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

“Stationary source emissions. 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 flues of any size and type (vertical/horizontal).



LEGEND

- 1. X-1 Probe
- 2. Absorber for Silica Gel
- 3. Impinger
- 4. X-1 Apis



HCl

UNI EN 1911:2010

The reference standard for sampling of acids in stacks is UNI EN 1911:2010.

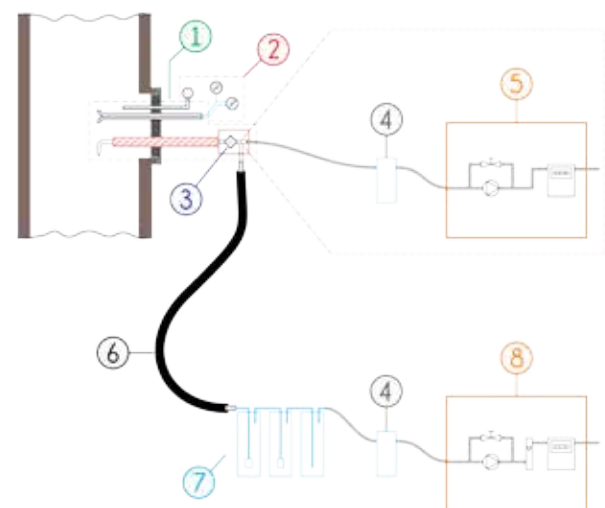
“Stationary source emissions.

Determination of mass concentration of gaseous chlorides expressed as HCl. Standard reference method”.

Manual system for the determination of HCl in emission with a titanium probe (also available with glass probe).

LEGEND

- 1. Thermo DL heated probe
- 2. Isocheck SRB
- 3. Filter holder
- 4. Absorber for Silica Gel
- 5. Lifetek 55 XP-R
- 6. Heated teflon tube
- 7. Impinger
- 8. Life 1 One



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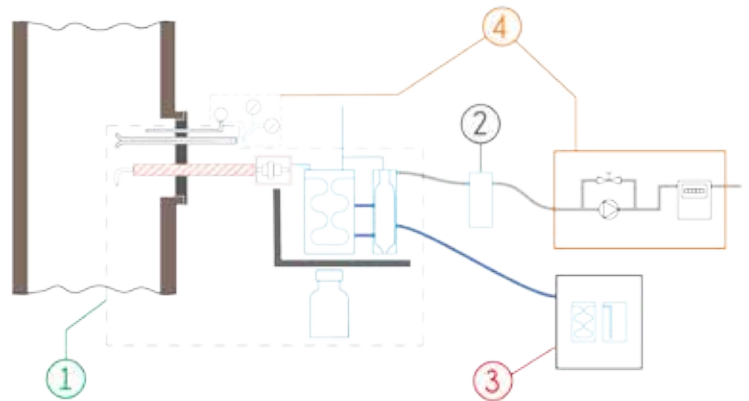
DIOXINS, FURANS, PAH UNI EN 1948-1:2006

The reference standard for sampling of micropollutants in stacks is UNI EN 1948-1:2006.

“Stationary source emissions.

Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs. Part 1: Sampling of PCDDs/PCDFs”.

The system allows to sample micro-pollutants (PAH, dioxins, furans) in flues of any size and type (vertical/horizontal).



LEGEND

- 1. X1 - Probe
- 2. Absorber for Silica Gel
- 3. X1 Chiller
- 4. X1 Apis

1



2



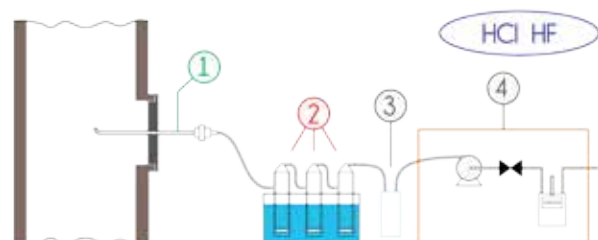
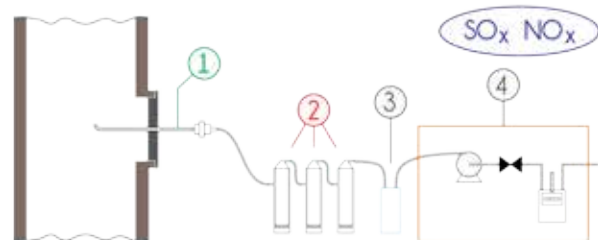
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SO_x NO_x HCl HF
D.M. 25 AGO 2000

The reference standard for sampling sulphur and nitrogen oxides as well as inorganic compounds of chlorine and fluorine is the D.M. 25 August 2000 (Istisan report 98/2).

The system allows to sample SO_x, NO_x, HCl and HF in conveyed gas flues.



LEGEND

- 1. Gas probe
- 2. Artik LT
- 3. Absorber for Silica Gel
- 4. Life 1 One

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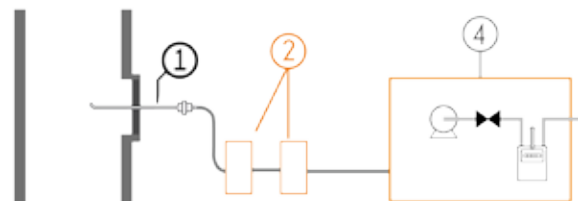
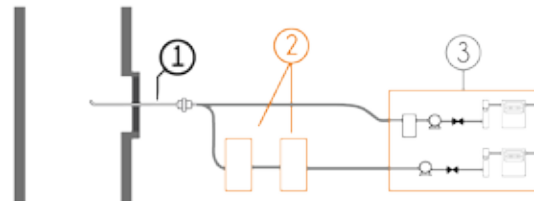
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VOLATILE ORGANIC COMPOUNDS UNI EN 13649:2002

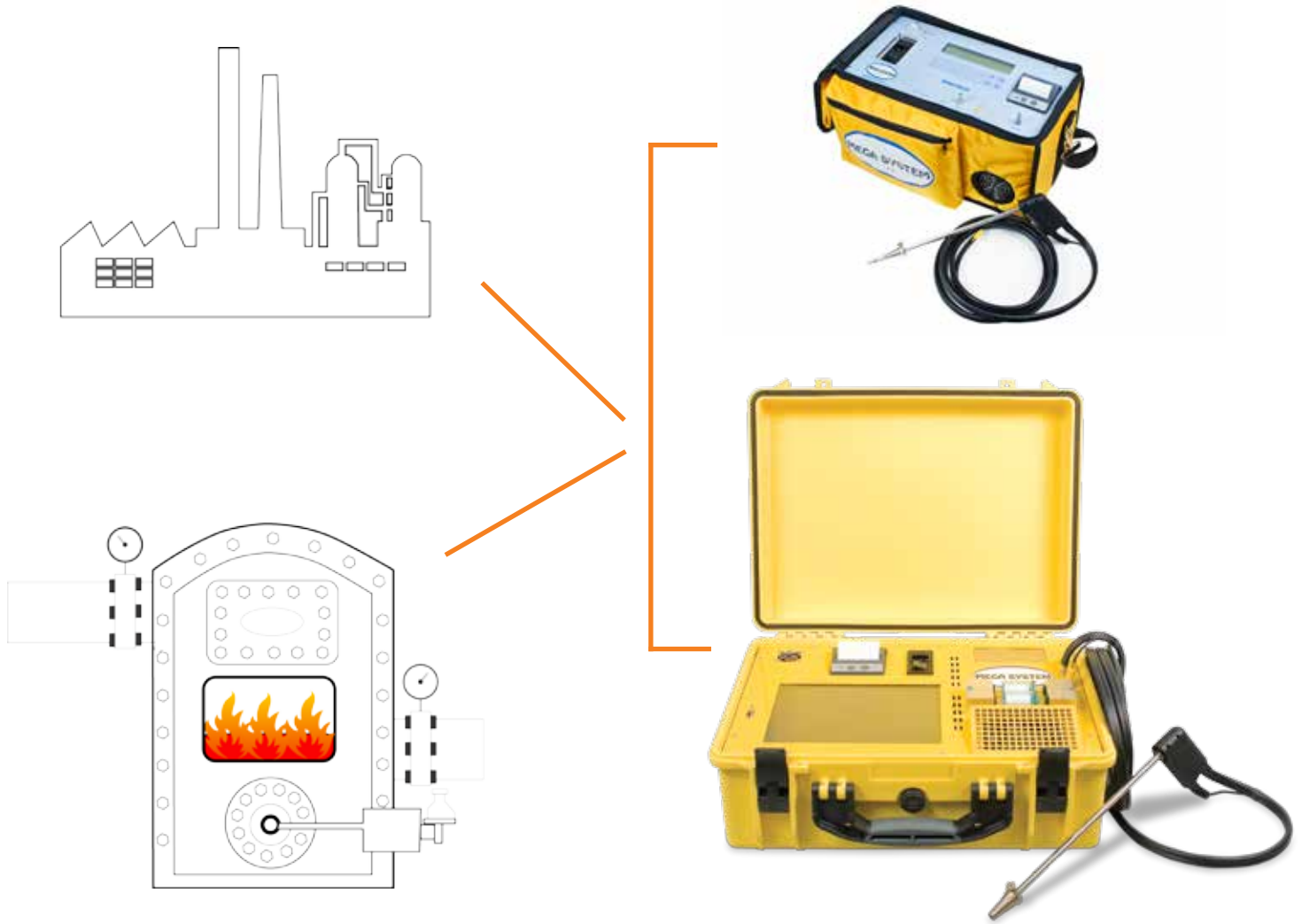
The reference standard for sampling sulphur and nitrogen oxides as well as inorganic compounds of chlorine and fluorine is the D.M. 25 August 2000 (Istisan report 98/2).

The system allows to sample SO_x , NO_x , Hcl and HF in conveyed gas flues.



LEGEND

- 1. Gas probe
- 2. Absorber for Silica Gel
- 3. Life Duo DIL
- 4. Life XP Gas



ANALYSIS OF COMBUSTION PROCESSES

The system allows to detect using electrochemical cell and infrared sensors, the following parameters: O_2 , CO, CO_2 , NO, NO_2 , SO_2 , C_xH_x .

LEGEND

1. Emicheck
2. Emicheck Hi