ENVItech s.r.o. ***ENVIRONMENTAL CONTROL SYSTEMS***
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STN EN ISO 9001 : 2009 EN ISO 14001 : 2004 LKMO ISO/IEC 17025:2005 NBÚ- Industry safety

Air quality monitoring
Sampling system
OSYS 02
datasheet

version 01_2017_JH

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AIR QUALITY MONITORING

SAMPLING SYSTEM OSYS 02

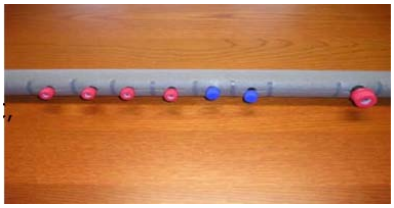
SAMPLING SYSTEM INCLUDING HEATED POWER CORD

In accordance with standards **EN14211, EN 14212, EN 14625, EN 14626**

Consist of:

Sampling head
Innert stainless steel with safety filter
Grid to avoid the condensation
Preventing the infiltration of insect, snow, rain and dust
Easy dismantling and cleaning
Sampling tube
Innert borosilicate glass in stainless steel tubing
Lenght: cca 1300 above the container roof
Including heating (self controlled heating)
Wall duct with easy mounting system
Easy dismantling
For standard roof thickness: 70 mm +/- 2 mm tolerance(flexible thickness)
Stable base for sampling head and line
Connecting tube DN 25
Connecting piece between sam. line – manifold
Sample manifold
Innert borosilicate glass – Air distribution glass tube
Incl. Heating + insultation (optionally)
8 ports (optionally more or less) for connection od PTFE tubes (1/4´´)
Dimension betwee each sample port: 60 mm (flexible lenght)
Complete sealing
Air velocity sensor/alarm (optional)
Suction tube
Material: PVC
Tube diameter: 800 mm
Lenght: cca 1000 mm (lenght according to the requests)
Fixed lenght or flexible
Easy dismantling
Blower (regulated flow)
Air flow: 70,8 m^3/h
Easy dismantling
Or optionally Blowing pump (see flexible type)
With accordion flexible suction tube to avoid the recirculation
Exhaust to the wall
Predetermined airflow: 2-5 m/s-1
Residence time: less than 5 s
Electic feeder for blowing pump

Flexible type



Heated manifold

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Flowmeter:

2 possibilities:

Continuous measuring

Open switch output(flow alarm)

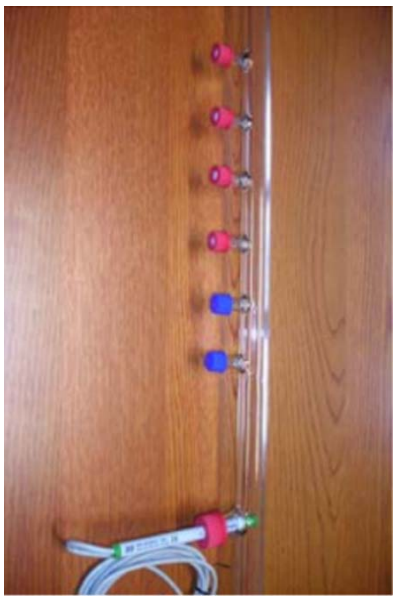
Heating of the sampling unit

Heated sampling tube / hated manifold

20 oC higner to ext. Temperature

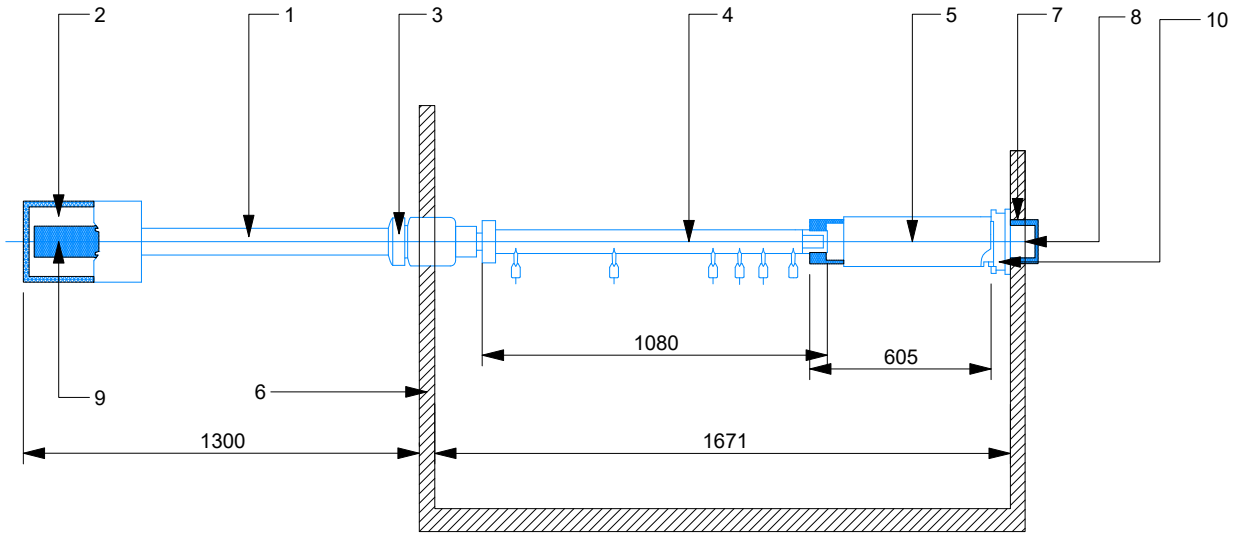
Heated self regulated cable on temperature in the container (output 22 W/m at 0 oC, 20 W/m at 10 oC, 15 W/m at 30 oC)

El. supply: 12-24V



Maintenance of samping system:

- Visual check of cleanness during each visit of monitoring station
- Mechanic cleanig sampling probe (head), sampling tube, sampling manifold using brush
- Frequency: if necessary, at least every 6 months.
- Frequency of cleaning depends on site-specific conditions.



1. Sampling line
2. Sampling head
3. Wall duct
4. Manifold
5. Suction tube with blower
6. Roof of the container
7. Floor of the container
8. Exhaust
9. Filter
10. Blower

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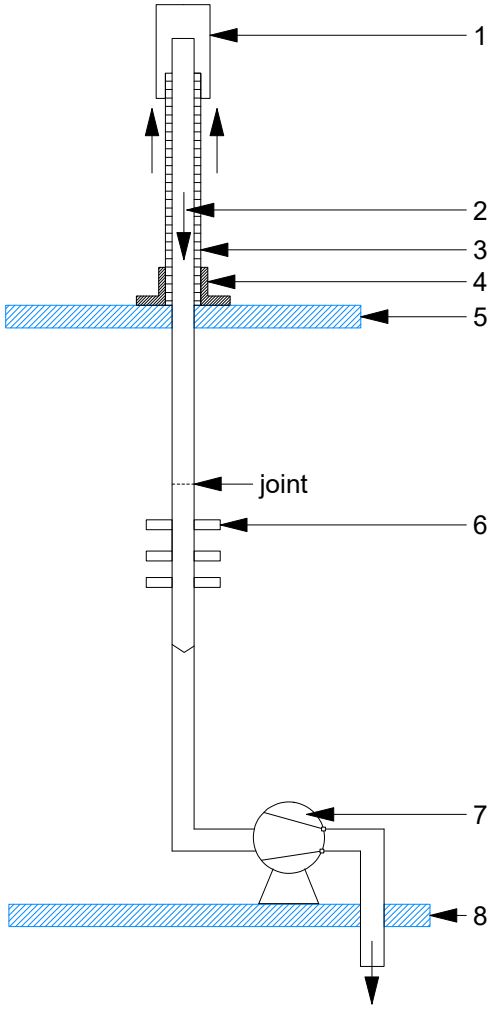

1. Sampling probe head
2. Suction tube
3. Bearing tube
4. Holder – duct of sampling probe
5. Roof of container
6. Glass manifolds with outlets
7. Suction device (the sample pump, compressor, pump, fan)
8. Floor of the container with the exhaust of excess sample