



FIXED SYSTEM FOR DIOXINS SAMPLING ON STACK EMISSIONS

DECS

Dioxin Emission Continuous Sampling

registration of the main parameters and anomalous situations.

The control unit has been designed and built to satisfy the following specifications:

- Full automatic isokinetic control
- Automatic control of temperature and sample conditioning
- Automatic Leak Test
- Accurate sampled volume measurement
- Up to 8 weeks period of continuous sampling
- Graphic interface managed by a self-driven software
- Data logger
- Internet/Ethernet connection
- Four analog inputs
- Input signal concerning the process operation status
- Fault system status output signal
- Power supply: 220 V AC 50 Hz 16 A
- Air supply: 6 bar, oil free
- Dimensions: 600x1800x600 mm (WxHxD)
- Weight: 140 Kg

Accessories:

- Forced cooling system
- Filter device choice for low or high concentrations
- Spare XAD2 cartridge
- Stack velocity measurement

Sampling Unit

The Sampling Unit is the part installed on the stack sampling point and is responsible for the sample extraction, without altering its composition, and collecting the solid and gas phases on the appropriate device.

The sampling unit is composed by:

- Heated Probe with interchangeable nozzle
- Heated box for filterholder
- Condensing system
- Adsorbing trap for XAD2
- Pitot tube

Process Characteristics:

- Stack velocity range: 3 ÷ 40 m/s
- Stack Temperature: max 350° C
- Water content: max 40% in volume
- Up to 8 weeks period of continuous sampling



The sampling unit has been designed according to the following requests:

- Ready to work in any moment
- No need to put in or out the stack for each sampling
- Particulate collecting filter enclosed in a heated box
- Easy substitution of filterholder cartridge, adsorbing trap and collecting device
- Made of Glass or Titanium
- Designed for outdoor mounting
- Applicable with DN 150 (on request DN 100) sampling port
- Dimensions: 600x700x350 mm (WxHxD)
- Weight: 37 Kg

