



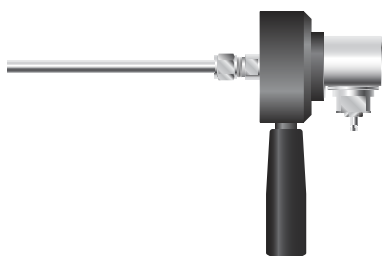
## Portable Dynamic Dilution Sampler

# DDS Dynamic Dilution Sampler for VOC emission sampling

### Main Characteristics:

- In accordance with EN 13649 norms
- Multistage protection trap on sampled air
- Multistage filter on dilution air
- Integrated dry gas meter within  $\pm 2\%$  uncertainty
- Flow rate range between 0.15 - 1.2 l/min
- Dilution rate stability within 5%

### DDS/EG Sampling probe



DDS sampler can be used with a sampling probe for gaseous compounds.

For further information, please see **Product Data 1.004.02**

### Dilution sampler

DDS system assembles in a single rack the sampler and the dilution unit. It is supplied by an internal rechargeable battery with a 7 hours autonomy.

DDS is equipped with a membrane pump, a precision flowmeter and a dry gas meter.

The two streams are regulated independently, so the dilution ratio should be changed to satisfy different stack condition.

The temperatures inside the dry gas meter are read with 2 digital thermometers.



A multistage protection trap shields the instrument from damages caused by accidental liquid aspiration.

A multistage filter on dilution air remove any kind of particulate and organic pollutants.

### Technical Characteristics:

<b>Sampling line:</b>	
Flow rate range	from 0.15 to 1.2 l/min
Pump type	Membrane
Dry Gas Meter uncertainty	+/- 2% with associate temperature
Flow adjust flowmeter	range from 0.1 to 1.2 l/min
<b>Dilution air generator line:</b>	
Flow rate range	from 0.15 to 1.2 l/min
Pump type	Membrane
Dry Gas Meter uncertainty	+/- 2% with associate temperature
Flow adjust flowmeter	range from 0.1 to 1.2 l/min
Dimensions (b x p x h)	270 x 270 x 300 mm
Weight	10.5 Kg
P/N	AC99-007-0100SP



## Dynamic Dilution Sampling Probe

# DDS/EG Sampling Probe

### Main characteristics:

- In accordance with **EN 13649 norm**
- Probe with a heated dilution chamber and a heated filterholder
- Shockproof carrying case
- Supplied with a battery (included) or 220 Vac power

The sampling probe DDS/EG can be used for sampling gaseous compounds with or without using the dynamic dilution system.

It is equipped with a heated filterholder and a heated dilution chamber.

Only stainless steel parts are in touch with gas.

Sampling tubes are suitable with different shape and length, according to standard sampling methods.

The probe is supplied with a carrying case containing a power supply of 220/110-12 V and a battery that allows to work even if there is no power.



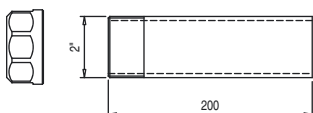
The supply includes an umbilical cable to connect at the sampler with a suction/dilution line, a key roll and quick connectors to joint to the sampler.

As an alternative to the umbilical cable, it is available a heated line with PTFE interchangeable sampling tube.

### Accessories

#### Measuring port

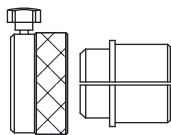
Thread pipe in carbon steel and thread cap of 2"



Cod. AC99-104-9902SN

#### Slide and lock device

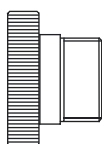
It can be used on all 2" thread pipes with an internal diameter over 50 mm



Cod. AC99-104-9901SP

#### Flame off adapter

Adapter for 90 mm diameter cylinder or for the universal flange TCR Tecora



Cod. AC99-104-9903SP

### Probe's technical characteristics:

Material in touch with the sample	AISI 316
Filter used	Membrane diam 25 mm
Heated temperature	110 - 120°C
Sampling tube length	350 mm
Power supply	220 - 110 Vac
Carrying case dimension (l x p x h)	450x350x170
Weight (without battery)	5 kg
Battery-charger	integrated
Battery capacity/autonomy/weight	11 Ah / circa 3h / 4.5 kg
<b>Probe P/N</b>	<b>AC99-007-0110SP</b>

### Heated Line 1.5 meter length :

Power supply	220 Vac
<b>P/N</b>	<b>AC99-007-0031SP</b>



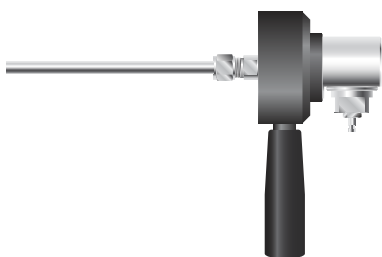
## Gas Sampling System

# Easy Gas

### Main Characteristics:

- In accordance with **ISTISAN 98/2**
- Constant flow sampler
- Small size and light weight
- Flow rate range between 0.2 - 1.2 l/min
- Volumetric counter for low flow equipped with a thermometer

### DDS/EG Sampling probe



Easy Gas sampler can be used with a sampling probe for gaseous compounds.

For further information, please see **Product Data 1.004.02**

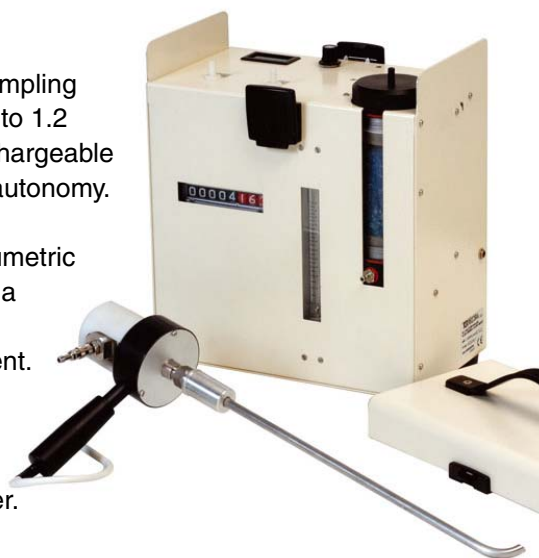
### E.G. Sampler

The sampler allows a sampling with a flow rate from 0.2 to 1.2 l/min supplied with a rechargeable battery with a 10 hours autonomy.

It is equipped with a volumetric counter for low flow with a thermometer for temperature measurement.

EASY GAS is equipped with a big silica gel trap and a protection filter.

This solution allows to avoid pump damages coming from aggressive stack gases or simply from accidental suction of adsorbing solution.



EASY GAS is supplied with a battery charger/power supply and can be also used from main supply.

### Technical Characteristics:

Flow rate range	from 0.2 to 1.2 l/min
Pump type	Membrane
Dry Gas Meter uncertainty	+/- 2%
Dimensions (b x p x h)	260 x 150 x 300 mm
Weight	6.3 Kg
P/N	AC99-007-0000SP



## Cooling Device

### EG Peltier Cooling System

The cooling and condensing device is equipped with a Peltier system that ensures the ideal temperature maintenance during sampling.

The main advantages of this system are the light weight and the small size.

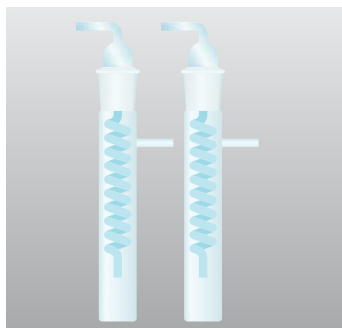
The glass kit is located into 3 cylindric cooled containers. To use the system it is not required to insert water and/or ice.

It is possible to use the glass kit showed or other ones having the same characteristics (impingers with 38 mm diameter)

Charcoal tubes are located inside the system and are cooled and protected from eventual source of heat and UV ray.



#### GLASSWARE



SOV Condenser  
AC99-007-0011SN



Impinger Type "A"  
AB99-005-0000SN

#### Technical Characteristics:

Power	150 W
Impinger container	Diam. 39 mm Height 190 mm
Device Size (l x l x h)	280 x 240 x 340 mm
Cooling water temperature	18 ÷ 20° C below local temperature
Weight	7 Kg
Power supply	220 V 50Hz
P/N	AC99-007-0010SP