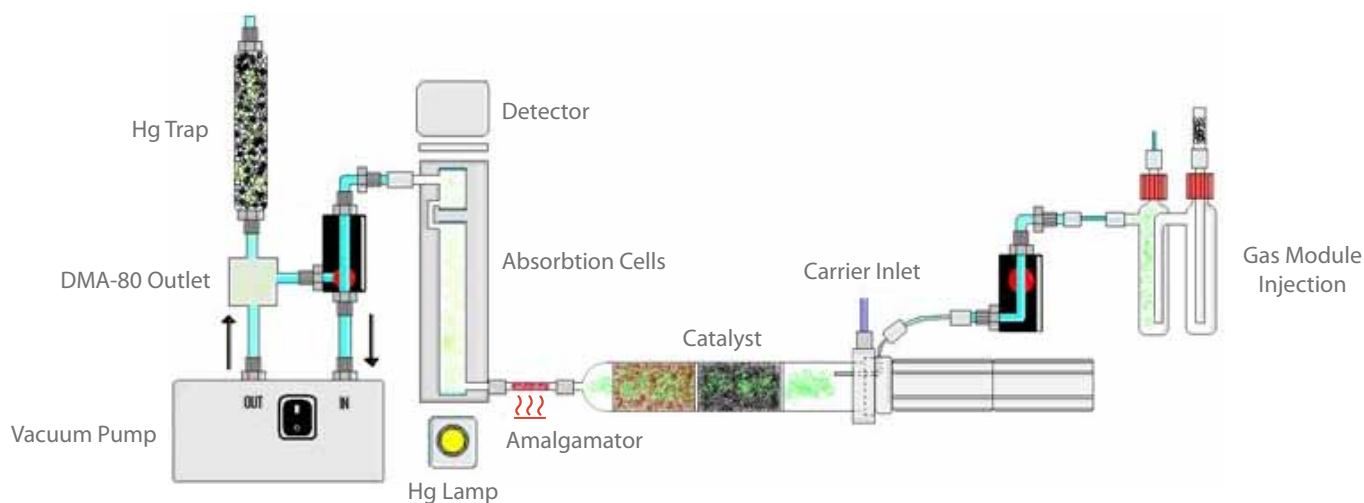


# New Gas Kit for the Milestone DMA-80

A new module for the determination of mercury in gases is available for the Milestone DMA-80. Gas samples are collected by a syringe or by Tedlar gas sampling bags, and then directly introduced in the DMA-80. A schematic representation of the entire process is shown below.



The gas kit consists of an injection block and a vacuum pump, which allow the flowing of the sample through the DMA-80 furnaces, amalgamator and spectrometer.

## Benefits

- » Direct mercury determination at trace level in gases
- » Fast analysis: approximately 3 minutes per sample
- » Wide dynamic range: from 0.015 to 1200  $\mu\text{g}/\text{cubic meter}$
- » Ease of use

## Applications

### Environmental



- Health and Safety
- Hazmat mercury response
- Workplace monitoring
- Mercury spill screening
- Mercury surveys
- Investigation of contaminated sites
- Environmental monitoring
- Hazardous waste inspection

### Petrochemical



- Natural Gas
- Biogas
- Gas processing

## Performance specifications

Data	DMA-80 Dual-Cell		DMA-80 Tri-Cell	
	Total Hg (ng)	Hg concentration* ( $\mu\text{g}/\text{m}^3$ )	Total Hg (ng)	Hg concentration* ( $\mu\text{g}/\text{m}^3$ )
Working range	(1 <sup>st</sup> ) 0.05-20 (2 <sup>nd</sup> ) 20-1200	(1 <sup>st</sup> ) 0.05-20 (2 <sup>nd</sup> ) 20-1200	(1 <sup>st</sup> ) 0.015-10 (2 <sup>nd</sup> ) 10-20 (3 <sup>rd</sup> ) 20-1200	(1 <sup>st</sup> ) 0.015-10 (2 <sup>nd</sup> ) 10-20 (3 <sup>rd</sup> ) 20-1200
Detection limit	0.005		0.0015	

\* Sample volume = 1 liter

# Sorbent Traps

## for the Milestone DMA-80

Sorbent traps are available for the Milestone DMA-80 to measure the mass concentration of Mercury in gases, including elemental Mercury ( $\text{Hg}^0$ ) and oxidized forms of Mercury ( $\text{Hg}^{+2}$ ) in micro-grams per dry standard cubic meter ( $\mu\text{g}/\text{dscm}$ ). Gases are collected onto the sorbent tubes by specific devices first.

At the completion of the sampling process, the sorbent tubes are directly placed on the DMA-80 auto-sampler and analyzed.



### Benefits

- » High quality analysis
- » Low mercury effect
- » High recovery > 98.5 % at 1000 ng
- » High recovery for both  $\text{Hg}^0$  and  $\text{Hg}^{+2}$  forms
- » High recovery in presence of moisture
- » Reusable sorbent traps
- » Easy to use: simply place it on the autosampler
- » Best quality-price

### Performance specifications

Sorbent trap	300 mg Adsoquick
Reusable sorbent trap	Up to 10 times
Flow rate	Up to 300 mL/minute
Recovery (up to 10 ng Mercury)	> 99.1%
Recovery (up to 100 ng Mercury)	> 99.2%
Recovery (up to 1000 ng Mercury)	> 98.5%
Reproducibility	< 2%

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