HovaQuick

INSPIRE ANALYTICAL SYSTEMS

NEW

Mercury Calibration Gas Generator for Mercury CEMs

- Defined concentration of mercury chloride ($HgCl_2$)
- Hot wet span gas
- Evaporator based principle

Typical Applications

- Calibration at Start Up
- Automatic daily calibration
- Daily zero and span check
- Drift check

Technical Benefits

- Oxidized Mercury standard
- No cylinder gas
- Point-of-use generation
- Easy portable
- Wide concentration range
- Adjustable concentration
- Traceable on primary methods
- Temperature independent

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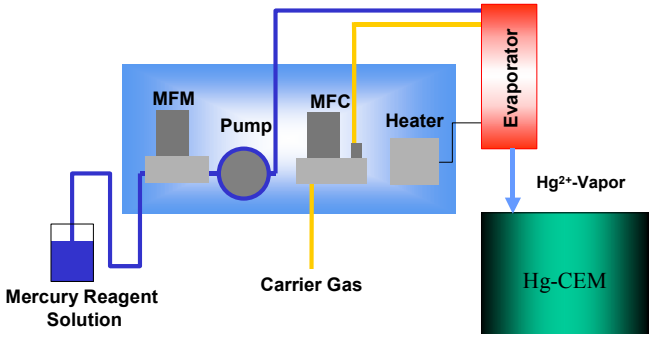
Description

HovaQuick is based on the principle of the well established calibration gas generator HovaCAL. It is especially designed to fulfill the requirements for the automatic Mercury CEMs calibration.

Like HovaCAL, the mercury reagent solution is pumped into an evaporator and mixed with carrier gas. Liquid and gas flow are both controlled by high precision mass flow meters (MFM, MFC).



Technical Data

Typical Concentration Range

Mercury Chloride	0,1 – 100 µg/m³ (depending on reagent concentration)

Other components or concentrations on request

Flow Ranges

Gas Flow Controller	3,0 – 10,0 l/min (Air, Nitrogen, normal conditions)
Liquid Sensor	0,05 – 3,0 ml/min (Water or aqueous reagent solutions)

Other ranges on request

Performance based on Reading

Linearity	< 2 %
Accuracy	< 2 %
Fluctuation/Stability	< 2 %
Reproducibility	< 2 %

Digital Interface

Serial	RS232

Other interface on request

Time Characteristics

Warm up Time	30 min
Response Time (90%)	10 – 30 s

Power Supply

Voltage	110 V or 230 V, 48 – 62 Hz
Power	max. 1000 W

Dimensions

Portable case	approx. 325x200x400 mm (W x H x D)
Evaporator	approx. 245x100 mm (H x ∅)