

External Filter for the OVA On-line Monitor

DIMENSIONS: 18 CM WIDE, 50 CM HIGH, 16 CM DEEP



On-line real-time monitoring of Heavy Metals in Water and Wastewater

Cogent's external filter enables sampling that is truly representative of the water stream.

It filters out large particles that would degrade the operation of the analyser.

Suspended solids will pass through the filter to be analysed, and give a total metal content.

The stronger, larger pump at the head of the filter unit can also extend the distance that the OVA can sample, from 5 metres up to 25 metres.

It is easily integrated into standard process systems.

It is useful for changeable conditions, like seasonal river flow, or industrial process changes.

SPECIFICATIONS

| | |
|--------------------------------|--|
| Filter pore size | 130 microns |
| Sample line length | 30 metre maximum with no vertical lift of sample |
| Sample lift | 5 metre maximum with reduced sample line length |
| Pump type | Peristaltic |
| Sample time element back-flush | Yes |
| Sample time | Programmable, controlled by analyser, and installation-dependent |
| Back-flush time | Programmable, controlled by analyser, and installation-dependent |
| Manual sampling point | Yes |

Name

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Title

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Telephone

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Mobile

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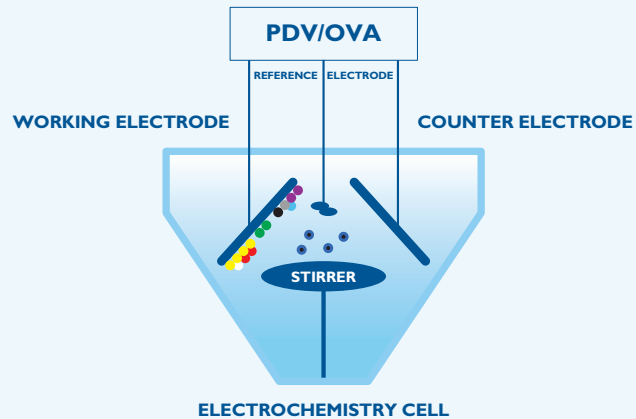
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Voltammetry explained

How the test works

Metals are drawn onto the working electrode when a specific voltage is applied to the water sample under test.



When a stripping voltage is applied, the metals return to the sample solution, generating a small current. Each metal has a specific voltage at which it returns to solution. So the metal is identified by its stripping voltage, and the current generated indicates the concentration of metal in the sample.

What it detects

The OVA can detect a range of different metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Tl, Zn, and others) to single figure ppb levels. Colour or turbidity does not affect the method. Samples range from wastewater, process water, river water to drinking water. Acid/UV digest and filtration are treatment options.

Applications include

- Accidental contamination events
- Monitoring of rivers, lakes, reservoirs, seawater
- Industrial effluent monitoring
- Groundwater monitoring / natural attenuation
- 'Once-through' cooling systems
- Borehole water that is exceptionally dirty

Features

- 24 hour monitoring of up to 3 sample streams in effluent
- Configured for customer requirements
- Low maintenance
- Modular (can be added after installation)
- Retains smaller suspended particles to provide a true measure of total metals
- Self-cleaning by back-flush (programmable)
- The filter catch-pot has a manual sampling point, for manual laboratory checks of the filtered sample
- Pre-treatment options of acid/UV digest can also be added, to eliminate interferences in filtered sample
- Programmable alarm outputs on OVA for out-of-range samples or system faults

WHERE CAN IT BE USED?



DRINKING WATER



INDUSTRIAL EFFLUENT



MINE WATER



SEA WATER

MORE INFO:

www.cogenv.co.uk
or call +44 1223 420 311

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