
ECM Solutions for Pharmaceutical Industry

ECM ECO Monitoring provides analytical solutions for online monitoring of pharmaceutical processes. The monitoring systems are dedicated for monitoring of emissions, working area and the actual pharmaceutical processes.

Monitoring of ducts

Portative and stationary systems to monitor organic content in ducts.

The monitoring can be for Total Organic Carbon or for specific organic pollutants as well.



Monitoring of fume hoods

Pharmaceutical plants operate many reactors with fume hoods to vent the organic vapour to the plant exhaust system. A special monitoring system allows monitoring of proper function of this system preventing area contamination or overall control the fume hood vent system for higher effect for open / closed reactor door conditions.



Mass spectrometers to monitor fermentation processes

Mass Spectrometers to monitor fermentation processes with the fastest cycle time on the market. Each mass spectrometer can replace multitude of chromatographs.



Monitoring of solvent recycling

Pharmaceutical processes are utilizing clean solvents. Special analytical equipment is allowing their proper recycling.



Monitoring of powder homogenization

Powder products must be homogenized in special mixers. A spectrometric equipment is indicating completion of homogenization.



Monitoring of powder product composition

A multi channel spectrometric system is providing continuous monitoring of powder product composition to detect production discrepancies instantly.



Monitoring of inertization of centrifuges

Centrifuges must be inverted (usually by nitrogen) to prevent powder explosion caused by static electricity. Low oxygen level analyzers help to safely control this project.



Clean room monitoring

Clean rooms require special monitoring equipment to prevent product contamination.



ECM ECO Monitoring, a.s., Nevädzová 5, 821 01 Bratislava, Slovak Republic

Phone: +421 2 4342 9417
+421 2 4342 7408
Fax: +421 2 4342 7465

E-mail: ecm@ecm.sk
http:// www.ecomonitoring.com

Company Reg. No.: 17312094
VAT No.: SK2020317244

Area monitoring

Working area in pharmaceutical industry can become contaminated by disinfection gases or organic contaminants. Sensitive portative and stationary instrumentation is taking care for early detection of cases with contamination exceeding hygienic limit values.



Biologic agent monitoring

Monitoring of bacteria in ambient air of working area.



Respirator testing

Equipment and training tool for proper usage of respirators.



Flow monitoring

Special clamp on ultrasonic monitoring systems for accurate flow monitoring without direct contact to monitored media.



Monitoring of cleanness of industrial gases

High accuracy analytic instrumentation for monitoring of cleanness of industrial gases in pharmaceutical applications



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Ultrapure water monitoring

Monitoring of trace organics in ultrapure water.



Waste water monitoring systems

Batch processes in pharmaceutical industry may require a sophisticated treatment process of the industrial waste water. Important part of the analytic systems controlling the treatment process are usually fast COD analyzers and fast toxicity analyzers to prevent killing of the bacteria in biologic treatment pools by toxic or sudden increase of organic pollution.



With detailed information we are gladly available on below contacts.

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