

# Advanced in vitro exposure systems

VITROCELL® Aerosolist



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## Automated sampling system for aerosol monitoring

### Introduction

Should aerosols need to be sampled directly on-site e.g. at workplaces, it is vital to have controlled flow conditions for the different sampling points.

Additionally, timing and sampling intervals need to be clearly defined.

The VITROCELL® Aerosolist with integrated vacuum

pump and flow controllers can be individually programmed according to the requirements of sample collection. This vacuum flow control-unit is the ideal

tool to monitor desired and real vacuum flow rates for 4 to 99 channels.

### Features

- Defined vacuum flow control for each channel. Flow rates can be specified as required.
- Individually defined sampling intervals: measuring and stand-by times, number of cycles, start-/end times.
- Monitoring of vacuum differential pressure for each channel with trend analysis. Important to monitor filter saturation.
- Integrated vacuum pump
- Recording of atmospheric pressure, temperature and relative humidity surrounding sample
- Data logging to PC with .csv file: System time and date, target and real MFC readings, vacuum pressure loss, surrounding conditions
- Data can be exported to Excel®
- Remote operation without PC and system integration in Network possible
- Individual selection of the vacuum channel



Exposure Systems



Dose Supply



Dilution



Racks & Carts



Dose Monitoring



Skin Exposure



Auxiliary Equipment



## About VITROCELL®

**VITROCELL® exclusively concentrates on the developing, producing, installing, training and servicing of advanced *in vitro* exposure systems.**

The VITROCELL® Systems' team is driven by their vision for new in-vitro standards through state-of-the-art technology, highly qualified workmanship and absolute client dedication. VITROCELL® has successfully collaborated with clients from leading research institutes, contract research organizations, regulatory authorities or industrial laboratories across the world. Working with our team experts, all modules have been tailored to create durable and complete turnkey-systems for *in vitro* inhalation toxicology. Gases, environmental atmospheres, nano particles and complex mixtures are analyzed on lung cells at the air/liquid interface using these systems. VITROCELL® technologies are also applicable to solutions for skin research.

Over a decade of devotion to research in this specific field has given our team of design & precision manufacturing specialists the opportunity to mentor highly diversified and complex projects **from conception to completion**. We strive to become a constructive member of each research team, providing support when it is needed, advice when it is required and modules of the highest quality, which are even polished by hand before leaving here to be integrated into your workspace. Every piece of our German engineered equipment is manufactured to the highest of standards – yours.

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